Though this Effigies here does Represent
and Portray forth his faces Liniament
Yet Read his Booke and you therin will find
that he hath Pictur'd there a Soldiers minde

Though this Effigies here does Represent
and Portray forth his faces Liniament
Yet Read his Booke and you therin will find
that he hath Pictur'd there a Soldiers minde

ARMA PACIS FVLCRA

MILITARIE DISCIPLINE:

OR, THE YOUNG ARTILLERY-MAN:

VVherein is Diſcourſed and Shown

the *Poſtures* both of *Muſket* and *Pike* the Exacteſt way, &c.

Together with the Exerciſe of the Foot in their *Motions*, with much variety: As alſo, diverſe and ſeverall *Formes* for the *Embatteling* ſmall or greater *Bodies*, demonſtrated by the number of a ſingle *Company*, with their *Reducements*: Very neceſſary for all ſuch as are Studious in the *Art Military*.

Whereunto is alſo added the *Poſtures* and *Beneficiall Uſe* of the *Halfe-Pike* joyned with the *Muſket*. With the way to draw up the *Sweatiſh Brigade*.

As alſo, MARS *his Triumph*.

The fifth Edition, Newly Reviſed and Inlarged,

By

Collonel *William Bariffe*.

Pſalm. 144. 1.

Bleſſed be the Lord my ſtrength, which teacheth my hands to warre, and my fingers to fight.

LONDON, Printed by *John Dawſon*. 1647.

War 2026.47.2 *

William Bawtree

TO THE

RIGHT HONORABLE *ALGERNON*,

Earle of *Northumberland*, Lord of the *Honours* of *Cockermouth*, and *Petworth*, Lord *Percy*, *Lucy*, *Poynings*, *Fitzpaine*, *Bryan*, and *Latimer*, Knight of the Noble Order of the *Garter*, Lord High Admirall of *England*, *Ireland*, and *Wales*, and of the *Dominions* and *Iles* of the ſame, of the towne of *Calet*, and *Marches* of the ſame, of *Normandy*, *Gaſcoigne*, and *Aquitaine*, Lord Generall of the Navy, and Seas, of the ſaid Kingdomes of *England* and *Ireland*, one of the Lords of his *Majeſties* moſt Honourable Privie Councell, and Lord Lieutenant of *Northumberland*, *Cumberland*, and *Weſtmerland*.

Right Honourable,

THe *Glory* of the *Meridian Sunne* is the more reſplendently ſet off by the *foile* and *darkneſſe* of a *Shadow*; which is a perpetuall *follower* of his *light*: as my *ambition* in all humble ſervice, is devoted to Your Lordſhip. The memory of ſo many *Heroicall Anceſtours*, as (in all *Ages*) have enobliz'd your *potent Family*; together with their *Martiall* and *Renowned atchivements*, doe for ever ſtand recorded in the *Booke* of *Honour* and *Fame*. And that (were occaſion fairely offered) your Honour hath *Spirit* and *Bravery* enough, in a *Military emulation*, to arrive up to the height of their *glory*: your conſtant and noble *Deportments* (as well in your private *carriage*, as of late in your publicke *Triumph*, when you were *inſtalled* into that moſt *Noble Order* of the *Garter*) doe moſt evidently preſage of you. This as it hath attracted all eyes and expectations: So hath it encouraged my *low ambition* (amongſt the reſt) to eſteeme your Honour a fit Patron for a Booke of this Nature. Your *innate* and *inbred Vertues*, together with that *Courteſie*, *Nobleneſſe* and *Affability*, (the inſeparable *Companions* of *Anciently deſcended Honour*) ſpeake you ſo eaſie of acceſſe, that my *Young Artillery-Man* deſpaireth not of acceptance and admiſſion to kiſſe the hands of your *Great Lordſhip*. The *firſt fruits* it is of my weake *endeavours*, and the experiments of my private obſervations. Such as it is, my humble requeſt to your good *Lordſhip*, that out of the accuſtomed *freedome* and *goodneſſe* of your *nature*, you would be pleaſed to daigne *acceptance* of it: Even the *acceptance* and *patronage* of this fifth *Edition*, as you pleaſed to doe of the foure former. Which as it may be an ample teſtimony of the continuance of your *Honorable favours* to the *Authour*, So this my *Dedication* ſhall give *aſſurance* to the World of the continuance and redoubling of my former *devotions* and *obligations*; and how well I was pleaſed that ſo great a *Peere* vouchſafed the *Patronage* of the former. And I withall beſeech your *Honour*, to give *pardon* unto that *preſumption*, which hath proceeded from *devotion*. I confeſſe it an *ambition* in me, to *ſoare loftily* in my *Dedication*; But as *Alexander* ſometimes, refuſed not a meane *Preſent* of *Fruit* from the hands of a ſimple *Gardiner*: ſo my hope is, your *Honour* will hold me excuſed for offering ſo *worthleſſe* and *meane* a *Mite* to ſo *great* and *Honourable* a *Perſonage*. Eſpecially, conſidering that the *ſubject* of my *Diſcourſe* is intended for the *bettering of the Souldiers knowledge of the trained Bands*; and that your *Lordſhip* is one of his *Majeſties Lieutenants*, it may prove a good *inducement* to your *Honours* liking (who are knowne to bee ſo great a *lover* of your *Countrey*) to *vouchſafe* the *Protection* and *Patronage* of theſe my endeavours, whereby I ſhall forever ſtand *obliged* in all *humility*, and remaine,

Your Honours *moſt humble and devoted Servant*

 WILLIAM BARRIFFE.

To the Right Worſhipfull, Sir *Ralph Boſvile*, Knight: Captain of a Select Company of *Foote* in the County of KENT.

YOu may be pleaſed to remember (*Noble Sir*) how often you have importun'd me to write ſomething (*by way of inſtruction*) for the bettering of the judgements of ſuch young Gentlemen and Souldiers, whoſe minds ſtand this way affected. *And although (for my owne part) I can better mannage the* Pike *than the* Pen: *yet that I might not be wanting in all acknowledgement, I have taken upon me to ſatisfie your requeſt; which ſhall ever carry the* authority *of a* command with it. *Expect not (I beſeech you Sir) to find my* Book *ſet forth with* fine phraſes, *nor to be deckt with* hiſtoricall diſcourſes *of* forraigne fought Battailes; *this being the onely thing by me intended in it, to ſet forth the* exact grounds *of this our* moderne diſcipline, *for the exerciſing of a* foote Company. *Nor is it to be eſteemed a* ſmall advancement *to the knowledge of the* Art Military; *even to have taught this* little, *ſeeing it muſt be confeſſed to have beene one of the chiefeſt* meanes, *to make* Philip *from a* poore Prince *to become a* powerfull Monarch; *and his Sonne* Alexander, a mighty Conqueror. *I meane his* exact obſervance *of the* true grounds of Military Diſcipline, *which beginneth with the* inſtruction *of a* private Company.

Adde hereunto (*which I have alſo touch'd upon*) *his frequent* practiſe, *and inuring of his* Souldiers to the Uſe of Armes; *together with* his well ordering *and* contriving *the ſeverall* formes *and* figures *of his* Battels. *Alwayes* (by the way) *obſerving how to make his* advantage, *either from the* time, *the* number, *or the* place, *or ſome other ſuch like* opportunity. *But not to cloy your* quainter eares *with* impertinent diſcourſes: *who are not onely a* Maſter of Armes, *but of* Arts; *alſo a Gentleman that hath beene* Captaine *either over* horſe *or* foote, *for the ſpace of theſe laſt* forty yeeres: *and from your very* infancie brought *up in the very* boſome *of the* Muſes. *So that you are now become a* Neſtor *for Counſell, an* Apollo *for* Muſicke, *and a* Mars *for the* Field. *But leſt by Acknowledging your* worthy parts (*your* native modeſty *being ſuch, that you never love to heare your own* due deſerved prayſes) *I purchaſe a* frowne *for a* recompence: *I forbeare. My humble deſire now is, that your* Worſhip *will be pleaſed to accept of my* well meaning: *and although I be wanting in* Artfull expreſſions, *yet to reſt aſſured that I am yours in all* humble *and* hearty affection, *and ſhall ſtill continue*

Yours,

WILLIAM BARRIFFE.

To all the Worthy Collonels, Lieutenant Collonels, Majors, and Captaines of the City of *London*.

Especially unto those that are, and continue Members of the *Artillery-Garden*.

The Right Worshipfull PHILLIP SKIPPON, Esquire, Serjeant Major Generall, of all the Forces of *London*, and Captaine of that Ancient and Worthy Society exercising Armes in the *Artillery-Garden*.

Red Regiment.
Collonel *Thomas Atkins*, Alderman.
Lieutenant Collonel *Rand. Manwaring*
Serjeant Major *William Tucker*.
1. Cap. *William Tomson*.
2. Cap. *Edward Hooker*
3. Cap. *Laurence Bromfield*.
4. Cap. *Rich Hunt*.
Coll. Captaine *George Mosse*.

White Regiment.
Collonel *Isack Pennington*, Lord Major of *London*.
Lieut Collonel, *Robert Davis*.
Serjeant Major, *Thomas Chamberlaine*.
1. Cap. *Thomas Player*.
2. Capt. *Christopher Whichcott*.
3 Capt. *William Marbie*.
4. Capt. *Joseph Vaughan*.
Coll. Capt *Richard Venner*.

Yellow Regiment.
Collonel *John Wollaston*, Knight and Alderman.
Lieut Coll. *Ralph Harrison*.
Serjeant Major *Richard Cuthbert*.
1. Capt. *Robert Tichburne*.
2. Capt *Walter Lee*
3. Capt *William Hitchcock*.
Coll. Capt *John Brett*.

Blew Regiment.
Collonel *Thomas Adams*, Alderman.
Lieut. Coll. *Francis West*.
Serjeant Major, *William Underwood*.
1. Cap. *Edward Bellamie*.
2. Capt *John Booker*.
3. Capt *George Dipford*.
4 Capt *William Cleeson*.
Coll. Capt. *Edward Clegett*.

Greene Regiment.
Collonel, *John Warner*, Alderman.
Lieut. Coll *Matthew Foster*.
Serjeant Major, *Owen Roe*.
1. Capt. *Matthew Sheppard*.
2. Capt. *Francis Roe*.
3. Capt. *Robert Mainwaring*.
Coll. Capt. *Thomas Iuxon*.

Orenge Regiment
Collonel, *John Towse*, Alderman.
Lieut. Coll: *Rowland Wilson*.
Serjeant Major, *Nathaniel Canfield*.
1. Captaine, *Thomas Gower*.
2. Captaine, *Richard Wollaston*.
3. Captaine, *Miles Pettie*.
Collonel Captaine.

Right worthy *Collonels* and *Captaines*:

ALthough it is commonly found, that every man by a kind of affection, love to magnifie and most to extoll those things, whereunto hee findes his minde most naturally inclined. Yet all such patiality and private affection laide apart, the love to my Countrey gave the first heate unto this Worke. And the rather I was induced thereunto, because I held my selfe obliged; that my small Rivolet ought to make an ackowledgement, or retribution to the Ocean, whence my poore Streames were first derived. And therefore in the first place to your selves; who are the *Collonels, Lieutenant Collonels, Majors*, and *Captaines* over the *Trained Bands*, and are not onely the choicest flowers of our City, but also of the *Artillery-Garden*: unto whom I was first beholding for the *Rules* and *Rudiments* of my *Military Instruction*.

And therefore Right worthy *Commanders* and *Captaines*, accept of this my acknowledgement; neither suffer any misconstruction to passe upon it, or to impute it otherwise then to my *gratitude*. For this fifth publishing of my worthlesse *Worke*, I hope I shall give none of you offence, by reason that I know it is your *earnest desire* that (if it might be) *all his Majesties faithfull Souldiers* and loving Subjects might be made perfect, both in the *Practick* and *Theorie*, and all other *necessary requisites* pertinent to the *Art Military*.

This is dayly manifested unto us, by your *frequent* bearing of *Armes* on *Generall dayes*; whereby you not onely give a *powerfull* and *good example* to others, warming the *sterility* of the *coldest affections*; but like so many *studs of imbellishment*, you garnish and adorne the *body of our Militia*. Persist then *worthy Captains*, in so brave an intendment, and *immortalize your Posterities*, by ingraving your *Names* in the booke of *Honour*; who neither want *skill* nor *courage*, to *merit* with those, whose *legends* have filled the *Trumps* of *Fame*. But I have soared beyond the modest bounds

TO THE READER.

COurteous *Reader*, although I have ſet forth this ſmall *Treatiſe*, principally ayming at the benefit of my *Country*, yet I know that ſome will not be *wanting*, to diſparage both the *Workman* and the *Worke*, the matter and manner. For ſuch is the *miſery* of the *times*, and the malice of men; that the frothy Depraver, ſhall *finde* (in ſome men) an opinion of his *worth*, by detracting into other mens merits: For mine owne part I ingeniouſly confeſſe, that amongſt many in our owne *Ground*, I was the meaneſt, both for skill and Schollerſhip, to have undertaken a worke of this Nature; but being continually preſt by my Acquaintance: ſome for the *Poſtures*, others for the *Motions*, and by ſome againe for *Figures*, I being alwayes willing to further men this way affected; granted and gave to ſome men Coppies, and ſuffered others to peruſe my Notes, which I had placed in an old waſte paper Book. But at length, Time, and mens tongues together, had begot an opinion, that I had writ a *Booke*. Which was ſo *freely divulged*, that I was requeſted by ſome to know when it would come forth of the *Preſſe*, when as yet I had not the leaſt *conceit*, to put *Pen* to *Paper* tending to this purpoſe. So that being ingaged ſomething in my credit, and withall requeſted by a Right Worthy *Knight*, then my *Captaine*, who had power to *Command*: and laſtly, being thruſt on by the importunity of ſome of my familiar friends: I have put my *Card* amongſt the reſt into the bunch to be ſhuffled: not much caring where it be *dealt*, ſo it be not mixt with the ——— If any carpe at the *plainneſſe* of the *ſtile*, I conceive that it fits beſt with the Subject; workes of this Nature chiefly requiring it. If ſuch, whom opinion hath made proud, and cuſtome, captious, ſhall happen to be my Superviſors, to them I ſay, that it is eaſier to finde faults than mend them; and to mend *Books* than to make them. But to the *courteous* and *skillfull*, whoſe better parts will yeeld better fruits, I ſhall requeſt their favourable cenſure, and that with their judgements, they will mend what by over-ſight I have miſt. For which their *loves*, I ſhall ever ſtand *ingaged*: and remaine

Their thankfull Friend and Servant,

WILLIAM BARRIFFE.

To my worthy Friend the Author.

HE that commends too poorly doth diſpraiſe,
And thoſe good parts he ſo commends, betrayes:
A ſilent admiration is the beſt,
When words fall ſhort, whereby ſhould be expreſt,
What we conceive, for faint and bare Commends
Meant for a praiſe, miſſe utterly their ends.

Ralph Boſvile, Knight.

Ad Amicum ſuum ingenioſum, *Gulielmum Barriffe*, Authorem.

Zoile venenata jaculari cuſpide Lingua,
Nil valet; hic veniunt Pallas *&* Arma *ſimul.*
O quàm ſecurus Liber hic, qui Martis & Artis
Palladiæ *ſacro Numine tutus erit!*

To his much deſerving Friend the Author.

A Souldier? and a Scholler? who did ſee
Mars and *Minerva* both in one agree.
Why come and ſee, loe here is one hath ſpent,
His time in *Mars*'is, and the *Muſes* Tent;
Both Say, and Do, how few can? but here (lo)
He that doth Say ſo much, can much more Do.
By's Practiſe, and his Precepts thou maiſt ſee,
And learn to know, and Do as much as He.
What others get with paines, charge, hazard, harms,
Here may be learn'd with eaſe; the uſe of Armes.
Zoilus may catch and carp, now here, now there,
But thou't beyond his Tongue-ſhot, never feare;
Thou that doſt dread nor pikes, nor guns, nor ſwords
Dread not the blaſts of barking *Momus* words.
Goe on my Friend, and let there ſpring from our *Artillery Garden* many ſuch a Flower.

Samuel Carleton.
Lieut. Colloncl.

To my loving Friend the Author.

H*Omer* eterniz'd is for writing, what
Achilles and his *Myrmidons* did at
The Siege of *Troy*, I envie not his fame,
But needs muſt future Ages greatly blame,
If they forget to Memoriſe thee too,
That ſhow'ſt not what was done, but how to do.

Another of the ſame.

OUr *Author* now the fifth time treads the *Stage*
Of *Mars* wherein he merits equipage
With any he, that characteriz'd with pen,
The neat'ſt Contrivements to Imbattle men.
Woe's me, or him, or that State that ſhall miſſe,
A Brother, Friend, a *Man of War* like this.
This *Gardner*, that's adorned with more *flowers*
Of Diſcipline; then is the year with houres.

Rowland Gwin
Licutenant.

On his much Honored friend the Author.

AS *London* (*Englands* farre-fam'd Emporie.)
In her brave Garden of *Artillery*;
With reaſon glory may, becauſe therein
Is exercis'd exacter *Diſcipline*,
By Motions and apt firings than is done,
In any other place of Chriſtendome;
So may that Garden as deſervedly,
(*Accompliſt Barriff*) joy and boaſt of thee,
Although here ſtil'd, *The Young Artillery Man*,
Of thy abounding modeſty, yet can
Thy skill or courage thereby vailed be
No more, than Sun beames by a Tyffanie:
Why young? Is't cauſe thou'lt ſtill a Learner be?
Even ſo muſt all that ayme at Excellency;
New accidents and expert mens direction,
Brings th'art of war ſtill nearer to perfection.
'Tis ſaid great *Alexander* wept, for that
He no more worlds could finde to ſubjugate,
And yet if he before *Oſtend* had beene,
He might have eaſier wept then entred in;
Becauſe by late Experiments he'de find,
That Art, grown univerſall and *refin'd*,
That Art of Arts which claimes the Diadem,
As the prime meanes to gaine bright honours gem:
And ſuch where by the *Romans* ſword acquir'd,
The world its Monarchy, and ſo admir'd.
And fear'd, it made them known to be, that all
(Beſides themſelves) they did *Barbarians* call
All which addes to thy worth, for tutering men
Therein by Poſtures, Motions, Voyce, and Pen:
And in a way ſo plaine, yet exquiſite,
And all compriſing that is requiſite.

Thoſe

For forming of Choice Squadrons, that thy merit
Will ro the end of time renown inherite;
Beeause the skilful'st Leader can no more
Then teach men how to fight (and march before)
With best advantage; yet saw I thee doe
A Captaines Office, and a Souldiers too,
In first Commanding what thou would'st do; And
Being first in executing such command
With such exact dexterity, as none
Could say thou cam'st short in perfection
To Forraign Disciplners neere or far,
Though daily train'd up in the Schooles of War.
Yet as th'art modest in thy Title, so
Th'art in displaying what thou treat'st of too,
For thou adorn'st not thy books Frontispiece,
With glorious Titles to endeare its price,
As th' Art of Warre, or Souldiers Academy:
Nor more pretendest then a *Company*
Or *Squadrons exercise*: and yet *a way*
To see a greater Body in Array
Thereby discover'st. Onwards then, and stead
Thy Nation, by supplying (at her need)
Thy Country with large *Troopes* well disciplin'd.
For which *Occasion* will hereafter finde
A meane to Crown thy *merit*. Whilst thy friends
Wish thy *Designes* acquire their hop'd for ends

Ja: Haward *ex hospitio Graiensi*, Arm.

To his much esteemed Friend, and fellow Souldier, the AUTHOR.

CRitick, observe thy distance, censure not,
Nor spend thy judgement like an Ideot
That nothing knowes; If knowing, know thou then
Thou must be ranck't amongst the envious men
If once thou dost attempt to contradict
The matter that this booke containes in it:
The Methods plain; not deckt with complements,
Those frivolous, idle, needlesse supplements:
The substance ponderous is; no fond conceit
Affronts thee friend. With shame they shall retreat;
And so retreat, as not to charge againe
In Front, in Reere, or Flankes. Thou shalt disdain
All Formalists, that fain would Souldiers seem,
Who much expressive are: in judgement green.

Andrew Wheatly. Ex hospitio Grai.

In Amicum Gulielmum Barriff.

YOung, and so old in *Marshall Discipline?*
Distrust will say, This worke is none of thine.
But I that know it, will averre the same
To be thine owne, and not anothers fame.
A Noble *Souldier* scornes to be so base
By others Worth to purchase his owne Grace.
And such is *Barriffe*: What his Book doth speak,
It is his own: let Envie swell and break.

Amicus H. Petow.

An *Anagram* and *Acrostick* on his loving Friend, *Collonell*

Anagramma. } WILLIAM BARRYFE.
I fill fame by Warre.

I *f* Lilly, Camden, and *Learn'd* Vdall's *name*
F *inds memory still, and fills the trump of* Fame
I *n framing Rules for Youth, that might them teach*
L *earn'd Arts in tongues above the common reach:*
L *et then* Wars rudiments, *that here are brought*
F *or* Englands *good; by none be set at nought*
A *nd scorn'd: for they in time will make renoun'd*
M *en studious in this* Art, *and their acts crown'd*
E *ndure: He that in* Warre *will seeke to gain,*
B *e perfect must in all, and that retain.*
Y *oung though our* BARRIFF *be, yet this his Book*
W *ill speak him old, if well thereon you looke.*
A *ll* Postures *for the* Musket, *and the* Pike
R *eformed are by him, and eke the like*
R *esin'd in* Motions *all, they there do stand*
W *ith* formes *and* firings *framed to your hand.*
I *n* Band *or in a* Regimentall *way:*
L *ook here, and soon a* Figure *form you may.*
L *ove to his Country, and our* Gardens *fame,*
I *n time prevail'd with him, to let* This same
A *gain to* Presse *be brought; O let not then*
M *ad rage, rash censure of proud ignorant men*
B *e prevalent: but let the learn'd, the just,*
A *nd eke the noble: yea all those that must*
R *enowned be, and will gaine* Fame *by* Warre,
R *egard what's good, forbear harsh doom: then far*
Y *our fame will flye, and we incourag'd shall*
F *rom* Barriffs Young Artillery Man *seeke all*
F *or honours Wreath: and to* fill Fame by War,
E *v'n here in* England, *and abroad full far.*

Thomas Whitley, *Lieut.*

MILITARY DISCIPLINE:

OR,

The Young ARTILLERY Man.

CHAP. I.

Concerning Poſtures, and handling of Armes.

THe firſt Rudiments of education, wherewithall to enter young *Souldiers*, which deſire to be inſtructed in that part of the *Art Military*, which concerneth the *Infantry*, (or *Foot-Souldiers*) ought to be *the well-mannaging and handling of their Armes*; which may eaſily be attained by frequent *Practice*, and the *Souldiers* thereby be brought to uſe them with *eaſe*, *ſafety*, and *delight*: where to the contrary (without *exerciſe*) the *eaſieſt Armes* become not only troubleſome burthens unto the *unskilfull bearers*, but too often prove dangerous and hurtfull, both to themſelves, and fellowes, that *ranke* and *file* with them. Neither need any be *diſheartened*, for no man is born a *Souldier*, nor can attain to any excellency in the *Art Military* without *practice*: But by *practice* is gained *knowledge*; *knowledge* begets *courage* and *confidence*; few or none being *fearfull* to *execute* what by *frequent practice* they have throughly *learned*.

And therefore it will be neceſſary for every one, that intends any *proficiency* in this part of the *Art Military*, firſt to be *inſtructed* in the *Poſtures* and wel-*handling* of their *Armes*; (a thing much to be deſired in our *Trained Bands*, though ſmall hope of amendment, ſeeing that our *Souldiers* are ſcarce called *forth* to *exerciſe* either *Poſture* or *Motion* once in foure or five yeares. Whoſe the fault is, I know not: *only I pray God that it may be amended, leſt ſhame and infamy be the leaſt of evils which our careleſſe ſecurity may bring upon us*: Yet pardon this digreſſion, for my zeale to my Countries good had almoſt tranſported me beyond the bounds of my intent; but of this no more. I will now come to the *Poſtures* of the *Musket* and *Pike*:) which ſome conceive, are fitteſt to *begin* from the *taking up* of their *Armes*, and *arming* the *Souldiers*, concluding them with the *laying down* of their *Armes*, or *diſarming* them. Nevertheleſſe, becauſe that ſome (eſpecially ſuch as have been in the parts beyond the Seas) have not accuſtomed themſelves to any ſtrict obſervance of *Poſture*, for the *arming* and *diſarming* of the *Muskettier*, but, after the manner of the *field*, come *ready charged* and *ſhouldred*, and ſo from thence making the entrance or beginning to the *Poſtures*; by which meanes others have been emboldned too cenſoriouſly to object againſt the reſt, as ſuperfluous: which they themſelves, at ſome time or other, cannot avoid. Therefore to the end that they alſo may have ſatisfaction, I have ſo placed the *Poſtures* of the *Musket*, that they may make uſe of ſo many of them as they ſhall thinke neceſſary, and leave the reſt to ſuch as require a more exact and ample ſatisfaction. But before I expoſe the *Poſtures* to the publike ſurvay, me thinks I heare ſome already enquiring, What is *Poſture*? Wherefore, that I may ſatisfie them, and not be troubleſome to others, in briefe thus,

Poſture in a Souldier is, the garbe or figure that hee uſeth in the handling of his Armes, conſiſting of ſeverall Motions for atchieving of each Poſture. The Motion being the working part; the Poſture, the alteration or act, either in circumſtance or matter: As, to reſt your Musket being one Poſture, to ſhoulder your Musket another; ſo likewiſe for the reſt. The definition of Poſture.

Howbeit, ſome perchance will object (as formerly hath been to one of *Athens*, making a long Oration in the praiſe of *Hercules* his valour) and ſay, Who ever doubted of it? So to me, Who ever queſtioned theſe for *Poſtures*? Yet I have known them not only queſti-

oned, but written against; peremptorily concluding, that there are but three *Postures* to be used for the *Musket*: whose errors I shall easily confute. But more of this after the *Postures* of the *Musket*. Wherefore for the more orderly proceeding, conceive their *Arms* to *lie before them on the ground*, and then the first *command* will be, to *stand to their Arms*.

The manner of *Arming* the *Muskettier*, and *Postures* of the *Musket*.

Take up your } *Bandeliers.*
Put on your }
Take up your } *Match.*
Place your }
Take up your Musket and Rest.
Rest your Musket.

Now, if you please, you may performe your saluting *Posture*.

Poyse your } *Musket.*
Shoulder your }
Take your Rest into your right hand, and you are armed ready to March.

Thus being *armed*, with *Muskets shouldred*, some account their *Postures* to begin from this place; wch may be done either *standing* or *moving*, as they successively follow.

Take your Match between the fingers of your right hand.
Put your Rest string about your left wrist, and carry your Rest in your left hand.
Returne your Match between the fingers of your left hand.
Unshoulder your Musket and poyse.
Joyne your Rest to the outside of your Musket.

Open }
Cleere } *your Pan.*
Prime }
Shut }
Cast off your loose Cornes.
Blow off your loose Cornes, and bring about your Musket to the left side.
Traile your Rest, and ballance your Musket in your left hand.
Charge with Powder.
Draw forth } *your Scowring Stick.*
Shorten }
Charge with Bullet.
Put your Scowring Sticke into your Musket.
Ram home your Charge.
Withdraw } *your Scowring Sticke.*
Shorten }
Returne }
Bring forward your Musket and Rest.
Poyse your Musket, and recover your Rest.

Thus having *charged*, some men will *shoulder*, and so from thence *make ready*; beginning their *Postures* from the *unshouldering* of the *Musket*: accounting of those past, as *Motions of Posture*: But they doe but tangle themselves in their owne snares: therefore I proceed.

Joyne your Rest to the outside of your Musket.
Draw forth your Match.
Blow your Coale.
Cock } *your Match.*
Fit }
Guard your Pan.
Blow the Ash from your Coale.
Open your Pan.
Present upon your Rest.
Give fire brest-high.
Dismount your Musket, joyning your Rest to the outside of your Musket.
Uncocke, and returne your Match.
Cleere } *your Pan.*
Shut }
Poyse } *your Musket.*
Shoulder }
Take your Match between the fingers of the right hand.
Take your Rest into your right hand, cleering your string from your wrist.
Returne your Rest into the left hand, the string loose.
Returne your Match into your left hand.
Unshoulder your Musket, and poyse.
Rest your Musket.
* *Set the But-end of your Musket on the ground.*
Lay down } *Musk. & Rest.*
your } *Match.*
Take off } *your Bandeliers*
Lay down }
March from your Armes.

* *Set the But-end of your Musket on the ground some (though improperly) call, Ordering the Musket.*

There is likewise the [a] *Sentinell Posture*, which is, The *Muskettier* having his *Musket charged* with *bullet*, his *Match cocke*, his *Pan guarded*, *stands* with his *Musket rested*, ready to performe such *duty* as shall be *commanded*, or given him in *charge*. Some have likewise taught to *make ready* on, or from the *Sentinell Posture*: But note, that as none comes to stand *Sentinell*, but comes ready *charged*; so if any occasion happen that he must

a *The Sentinell Posture.*

give

give fire in the time of his *standing Sentinell*, it causeth an *Alarm* to the *Quarter* or *Corps du guard*, from whence hee is set out; so that he will have no fit time to *make ready upon his Rest*. Wherefore I conceive it superfluous; but will ever conform to better judgement.

We have also the [a] *Funerall Posture*, which from the *Rest* is to be performed at three *Motions*, but cannot so well be expresst in *writing*, as it will expresse it selfe in *action*. Wherefore seeing that it is rather an Ornament to Obsequies, than truly necessary for *Armies*, I will not spend more time about it, but come to the *Postures* of the *Pike*. Yet before I passe upon them, give me leave to answer some, which out of a criticall humour, will alwayes be carping at others, condemning these *Postures*, saying, there are more by halfe, then are either good or usefull: and that there are no more *Postures* to be used, but *Make ready*, *Present*, *Give fire*. The which we will not deny, that in *Service* there are any other Commands *usefull*: notwithstanding I would have them to know, that [b] *Make ready* is no *Posture*, but a word of *command*, including all *Postures* from the first *arming* of the *Souldier*, to the *Present*: or, if the *Musketter* be *charged*, *shouldered*, or *both*, then the word (*Make ready*) *commands* the prosecution of the rest of the *Postures*, which are between the *Posture* you then immediatly are at, when the *word* is given, and the other *Posture*, *Present*: For which reason, when we teach *Musketters* at first, it is most necessary to instruct them punctually, from *Posture* to *Posture*; which being once attained, they will *manage their Armes* more *surely*, more *comely*, with more *celerity*, and with better *execution*; and at the first may easily be taught the best way. [c] But if they have once got an habit of being ill, there will be as much or more paines spent in reclaiming their errors, as at first to teach them the best, safest, and readiest way.

[a] *The Funerall Posture.*

[b] *Make ready, no Posture, but a word of Command.*

[c] *Ill customs hardly reclaimed.*

CHAP. II.

Of the Postures of the Pike.

THat which followeth next of course, is the *Posture* of the *Pike*: Wherefore, that wee may observe *Order* in our proceeding, wee will likewise conceive their *Pikes* to lie in like manner before them on the ground: And then, as before, the *first command* will be, to *Stand to* their *Armes*.

Handle / *Order* } *your Pikes.* | *To your* { [d] *Open* / [e] *Close* } *Order.*

[d] *Open Order, in respect of Posture for the Pike, it wee the files stand at double distance, or open Order at the least; then the Pikemen are to extend their right arms, and place their Pikes about a foot to the right of their right legs: it is usefull only to make a gallant shew.*

Charge from the Foot.

Which is to *charge* with the *But-end* of your *Pike* at the *inside* of your *right foot*, your *Pike* in the *left hand*, drawing your *Sword* over the *left arme*.

Charge to the { *Right.* / *Left.* / *Reere.*

Order your Pikes, and put up your Swords.

Note that these *Charges at the Foot*, are to *receive a desperate enemy on Horse*, upon a *stand* in some *strait*, or other *place of advantage*, the *Musketters to give fire over the Pikemens heads*, or *elsewhere*, at the discretion of the *Commander*.

From Order { *Port* / *Comport* / *Check* / *Traile* } *your Pikes.* } *Order as you were.*

Charge to the { *Front.* / *Right.* / *Left.* / *Reer.* } *Order as you were.*

Shoulder your Pikes.

[e] *Close order is to place the But-end of the Pike on the inside of the foot, and is only usefull upon a stand, to receive and abate the fury of the Horse upon a desperate charge.* [f] *Charge to the reer is to be onely used when to the left about, because it is three times sooner way then changing to the right about.*

Advance your Pikes.

From { *Port* / *Comport* / *Cheeke* / *Traile* } *your Pikes.* { Advance as you were. }

Charge to the { *Front.* / *Right.* / *Left.* / *Reer.* } { Advance as you were. }

Shoulder your Pikes.

From the Shoulder { *Port* / *Comport* / *Cheek* / *Traile* } *your Pikes.* { Shoulder as you were. }

Charge to the { *Front.* / *Right.* / *Left.* / *Reere.* } { Shoulder as you were. }

From *Comport*, *Cheeke*, or *Traile*, the *Pike-man* may, at the diſcretion of the *Commander*, *charge* either to the *Front*, *Reere*, or *Flanks*, as ſhall be neceſſary, or thought expedient. I will doe it only once over, for the *Charges* will be all alike, whether you *Comport* from *Order*, from *Advance*, or *Shoulder*. And ſo likewiſe for *Cheek* and *Traile*, &c.

From Comport Charge to the { *Front.* / *Right.* / *Left.* / *Reere.* } { Comport as you were. }

Traile your Pikes.

From the Trail Charge to the { *From.* / *Right.* / *Left.* / *Reere.* } { Traile as you were. }

Cheek your Pikes.

From the Cheek Charge to the { *Front.* / *Right.* / *Left.* / *Reere.* } { Cheek as you were. }

Order / *Lay down* } *your Pikes.*

I ſhall undergoe the cenſure of ſome, for that they will find more *Poſtures* of the *Pike* here then formerly they knew of, and ſo by their concluſion more then there is any need of; for now-adayes there are ſuch that will limit the *Diſcipline* of the *Militia* to the verge of their own knowledge; and whatſoever elſe they ſhall ſee either *acted* or *written* by others, that is without the liſts of their *kenning*, they will peremptorily conclude for ſuperfluous, and improper; howſoever, I ſhall alwayes referre my ſelfe to the judgement of the more judicious.

The uſe of the Pike.

The *Charges* of the *Pike* are *twofold*, either for *Defence*, or *Offence*: *Charges underhand*, or *over-hand*: but divers and different they are from their ſeverall *wayes* and *Poſtures* from which they are, or may be done, although they are not alwayes *uſefull*, yet at ſome times they may be *uſefull*; and therefore very requiſite to be knowne of all ſuch as either are, or at leaſt would be accounted for *good Souldiers*.

As I have ſet down the *Poſtures* themſelves both of *Musket* and *Pike*, ſo it were not amiſſe, if that the *Motions of Poſture* were likewiſe here expreſt. But becauſe they will take up too much time, and fill too much paper, and the ſubject it ſelfe not pleaſing unto many, I will ſpare my labour, and my booke the lines, rather ſuffering the cenſure of curtaild brevity, then tedious prolixity.

CHAP. III.

Of the Drum.

OUr *Souldiers* being ſufficiently *inſtructed* in the *Poſtures* of ſuch *Arms* as they *carry*, (or are appointed to uſe;) the next thing they are to *learne* is the *knowledge* of the *ſeverall beats* of the *Drum*, which is as requiſite to be *learnt* of the *Souldier*, as any thing elſe in this *way*. For the *Drum* is the *voyce* of the *Commander*, the *ſpurre* of the *valiant*, and the *heart* of the *coward*; and by it *they* muſt receive their *directions*, when the *roring Canon*, the *claſhing* of *Armes*, the *neighing* of *Horſes*, and other *confuſed noiſe* cauſeth that

that neither *Captain*, nor other *Officer* can be *heard*. Therefore it will be necessary that every Souldier should learn these six severall Beats, *viz.*

1 A Call. 2 A Troop. 3 A March. 4 A Preparative. 5 A Battaile. 6 A Retreat.

1 By a *Call*, you must *understand* to *prepare* to heare present *Proclamation*, or else to repaire to your *Ensigne*. *A Call.*

2 By a *Troop*, *understand* to *shoulder* your *Muskets*, to *advance* your *Pikes*, to *close* your *Ranks* and *Files* to their *Order*, and to *troop along* with (or *follow*) your *Officer* to the *place* of *Randezvous*, or else-where. *A Troop.*

3 By a *March* you are to *understand* to *take* your *open order* in *rank*, to *shoulder* both *Muskets* and *Pikes*, and to direct your *March* either *quicker* or *slower*, according to the *beat* of the *Drum*. *A March.*

4 By a *Preparative* you are to *understand* to *close* to your *due distance*, for *skirmish* both in *ranke* and *file*, and to *make ready*, that so you may *execute* upon the *first command*. *A Preparative.*

5 By the *Battaile* or *charge*, *understand* the *continuation* or *pressing forward* in *order* of *battaile* without *lagging behind*, rather boldly stepping *forward* in the *place* of *him* that *falls dead*, or *wounded*, before thee. *A Battaile.*

6 By a *Retreat*, *understand* an *orderly retiring backward*, either for *relief*, for *advantage* of *ground*, or for some other *politicall end*, as to *draw* the *enemy* into some *ambushment*, or such like. Much more might be written concerning the *Drum*, but this may suffice for the present. *A Retreat.*

Chap. IV.

Of Ranks and Files, their places and dignities.

NOw that our *Souldiers* are somewhat *skilfull* in *managing* of their *Armes*, and no lesse capable of the severall *beats* of the *Drum*, it is high time for them to know the difference *between a Rank and a File*. Wherefore know, that *a Rank is a row of men, sometimes more, sometimes fewer, standing, moving, or marching even a breast*, or (as some write) *pouldron to pouldron*, or *shoulder to shoulder*. *A File is a sequence of men, standing one behind another, back to belly, in a straight line from Front to Reere*, consisting sometimes of 6. 8. or 10. men, on some occasions the *Spainards* make them 12. *deep*. But when any one would shew much *variety* of *exercise*, then 8. will be the more *pliant* and *dividuall number*; yet for *service* in the *Field*, where men are not altogether so *expert* (as I could wish our Countrymen were) 10. men is a fit number, not only for the cause aforesaid, but also because that 10. is the *square Root* of a 100. and is a convenient number to draw *Companies* into *grosser bodies*. *What is a Ranke.* *What is a File.* *Where men are expert, 8 is a sufficient depth, and may better keep their order then when they are deeper.*

And now I thinke it would not be much amisse, if I should insert the severall *places* of *dignity* and *precedency* in *Rank*, as also in *File*. Wherfore because that **Files* are first to be *drawn forth*, and that by *adding* or *joyning* of *Files together*, *Ranks* are *made*; we will begin *first* with the precedence of *Files*. Therefore conceive their *dignities* according to the *Figures* (or *Numbers*) hereunder *placed*, first in *File*, then of *Rank*, lastly of *both conjoyned*.

**In placing your men, first draw your Souldiers forth in files, and not in ranks, as some have fondly used.*

Front.

	Front.	Number of dignity.								Number of dignity.								
	1.	P	1.	2	6	7	3	4	8	5	1	2	6	7	3	4	8	5	1	0.
Number of dignity.	2.	P	5.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1
	3.	P	8.	8	7	6	5	4	3	2	1	8	7	6	5	4	3	2	P	5
Number of place.	4.	P	4.	Number of place.								Nũber of place.						3	P	8
	5.	P	3.															4	P	4
	6.	P	7.															5	P	3
	7.	P	6.															6	P	7
	8.	P	2.															7	P	9
	Reere.																	8	P	2

Number of dignity.

Nũb of place.

It will not be (of it ſelf) ſufficient that I have here both *marked* and *ſignified* each ſingle *worth*; thereby pointing out the ſeverall *places* and *dignity*, *proper* to each *particular man*, in his *file* and *rank*: but it will be expected of ſome, that I ſhould back my *Concluſions*, either with ſound and ſolid reaſons of mine own, or at the leaſt with the concurring opinions of others. But as for ſuch, who have employed themſelves upon this *Subject*, either for want of due conſideration, or a rationall underſtanding the *parts of a File*, they have voted their *judgements* as divers as their *number*; each man having a fancy to his own *way*. And if it were much *materiall*, I might here demonſtrate unto you the ſeverall opinions of *Leo*, *Robertellus*, *Count* Mansfield*, Sir *Tho. Kellie*, and many others: but their works being *extant*, I will ſpare the labour. Nevertheleſs I will ſay thus much, that *Captain John Bingham*, although ſomewhat *obſcurely*, yet in my judgement hath beſt delivered himſelf concerning this particular: which although he hath expreſt by way of *Tetrarchies* and *Mirarchies*, the ſame may be underſtood as well by *Ranks* and *Files*. His words are theſe: "* *Every* "*Tetrarch is over four Files, in all which the Commander that hath the right, hath the firſt* "*place*; *he that hath the point of the left, the ſecond place*; *he that ſtandeth on the right hand* "*next to him, the third place. The laſt place is his, that ſtandeth next to the Commander of* "*the right point on the left hand*: *He demonſtrates it by way of figure thus.*

* *2d. Book ſet out in his name, but none of his.*

* *In the Taſticks of Aelian. lib. 1. the notes of the tenth Chapter.*

	PMM.	MMP.	PMM.	MMP.	
Right wing	1 5 1	4 8 4	3 7 3	2 6 2	Left wing.

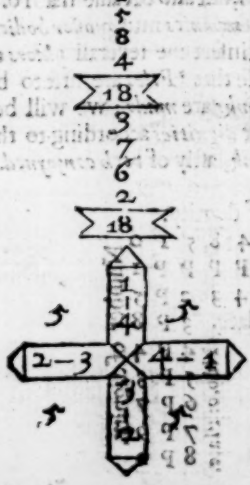
The Middle.

CHAP. V.

Reaſons for precedency of dignity in Ranks and Files.

I Shall now endeavour to give ſome reaſons for theſe *ſeverall places* of *dignity* in *Ranks* and *File*. And firſt, for that Geometricall proportion, gives both *life* and *being*, to *orderly diſcipline*, conſider that all *parts* of the *body* ought to be *anſwerable*. Wherefore ſeeing that the *joyning* of *Files* and *Ranks* produceth *greater bodies*; it is neceſſary that a true proportion ſhould be kept from the *beginning*: and that in *drawing forth* of *Files*, they obſerve to make the *reer-halfe-file* anſwerable in *skill* and *worth* to the *front-half-file*: and that the *file-leaders*, & *half-ranks* of the *left-flank* ſhould be equivalent in *worth*, *skill*, and *valour*, to the *right-flank*; that the *reer diviſion* hold like proportion with the *front diviſion*, and that all parts of the *body* be *ballanced* with true proportion, ſo near as the knowledge of the *Souldiers*, and the *number* of the *men* will give you *leave*; and that there may be correſpondency in their *worth*, *place*, and *dignity*, you may obſerve by adding the *figures* of *number* together which are in the *margent*, where you ſhall find, that the *dignity* being added together of the *front halfe file*, makes the number of 18; and the worth of the *reer-half* being in like manner added makes the like *number*. So alſo ſhall you find the *dignity* and *worth* of the *file-leaders* of the *left-flank* to parallel the *worth* of thoſe on the *right-flank*, by the ſame rule. If you will have it yet more cleare, obſerve that the *file-leader* is the *chiefe* in his *file*, the *bringer-up* the *ſecond*, the *half-file leader* the *third*, the laſt man of the *front half file* the

Front.



the *fourth*. Now note, that as the *worth* of the *firſt* preuedes the *ſecond*, ſo the *worth* of the *third exceeds* the *fourth*: Adde the *firſt worth* to the *fourth worth*, and that makes *five*; adde the *ſecond worth* to the *third*, and it makes the ſame *number*: ſo that there is *equality* throughout the *battel*, both in *front*, *reere*, and *flanks*: for it were unreaſonable, that all the *chiefe men* ſhould be on the *right-flank*, and all the *worſt* on the *left*; for the *left* muſt be *oppoſed* to the *enemies right*. The *file-leader* ought to be the *worthieſt* becauſe hee hath the *command* of his *file*, and *marcheth firſt againſt* his *enemy*. The *bringer-up* ought to be the *ſecond*, becauſe his *place* of *march* is in the *reere*, and is in moſt danger, ſhould the *enemy charge* on that *part*: the *halfe-file-leader* is the *third* in *honour*, becauſe that when the *halfe-file is taken off* upon any *occaſion*, he is the *leader* (unleſſe they be *commanded* to *face about*) the *laſt man* of the *front-half-file* is the *fourth* in *dignity*, for when the *reere-diviſion* is *taken off*, then he is the *bringer-up*, or the *file* being faced about, he is the *half-file-leader to the reere*: the next *man* to the *file-leader* hath the *fift place* of *honour*, for that one *doubling brings him into the front*: the next *man before* the *bringer-up*, hath the *ſixt place* of *honour*, for that if the *body* be *faced about*, one *doubling brings him into the front accidentall*, or keeping the *proper front* by once *doubling* of *ranks*, he becomes *bringer-up* to his *file-leader*: the *ſeventh place* of *honour* is his, that *marcheth* next after the *half-file-leader*, for that when the *half-files double the front*, or *marcheth forth* then one *doubling ranks him even* with the *front*: the *eighth* and *laſt place* of *honour* is *his*, that is the *third* from the *front*, the *file* being but eight *deep*, which may alſo be *made a file-leader* though with more trouble than the reſt; for by *countermarching front and reere into the midſt*, and then *facing* to the *former front*, and after *doubling* of *ranks*, makes him likewiſe *a file-leader*. Now, as *every mans dignity is more or leſſe in his file, ſo is all his ranke with him*. Wherefore this that hath already been ſaid, may ſuffice to inform thoſe which as yet are ignorant of the ſeverall *places of dignity*, both in *rank* and *file*. Nevertheleſſe, for the clearer *demonſtration* of theſe *rules of dignity, and for that they are of more concernment, then at firſt every man can imagine*, I have drawn forth *three tables*. The firſt of *ſix deep* and *ſix* a breſt: the ſecond of *eight deep*, and *eight* a breſt: the third of *ten deep*, and *ten* a breſt: which will ſhew the particular *dignities* due to each man in *rank* and *file*. I have alſo added *three other ſquare tables*: the firſt of *thirty ſix men*, the ſecond of *ſixty foure*, the third of *one hundred*. And in *each table* I have ſhewed every *mans place* of *dignity* in *file* and *rank*, as alſo in the *joyned body*, from the *firſt* and *chiefe* to the *laſt* and *leaſt* in *dignity*, by figures of number, with an addition of their ſums together, to ſhew their *uniformity*, and proportion to each other.

The Places of Dignity of 10. in Rank.

| 2 | 6 | 0 | 7 | 3 | 4 | 8 | 9 | 5 | 1 |

The Places of Dignity of 8. in Rank.

| 2 | 6 | 7 | 3 | 4 | 8 | 5 | 1 |

Places of dignity of 6. in Rank.

| 2 | 6 | 3 | 4 | 5 | 1 |

Rules of Dignity ought not to be regulated by ill cuſtomes, conceited opinions, and falſe grounds; but by truth and reaſon.

5
4
3
6
2

Places of dignity of 6. in File.

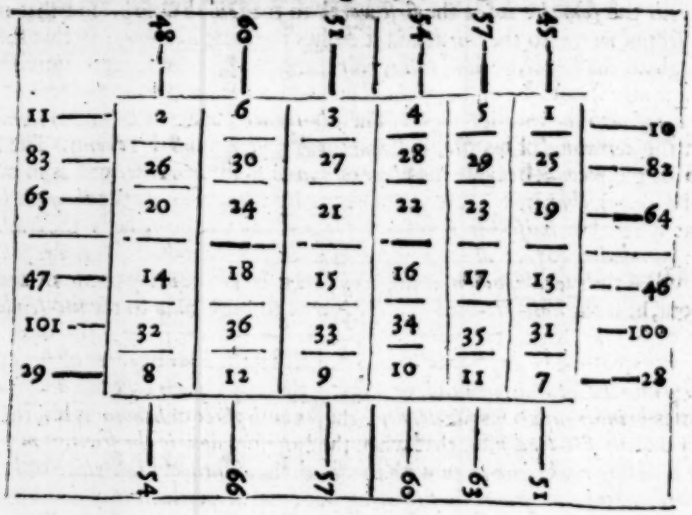
5
8
4
3
7
6
2

The places of dignity of 8. in File.

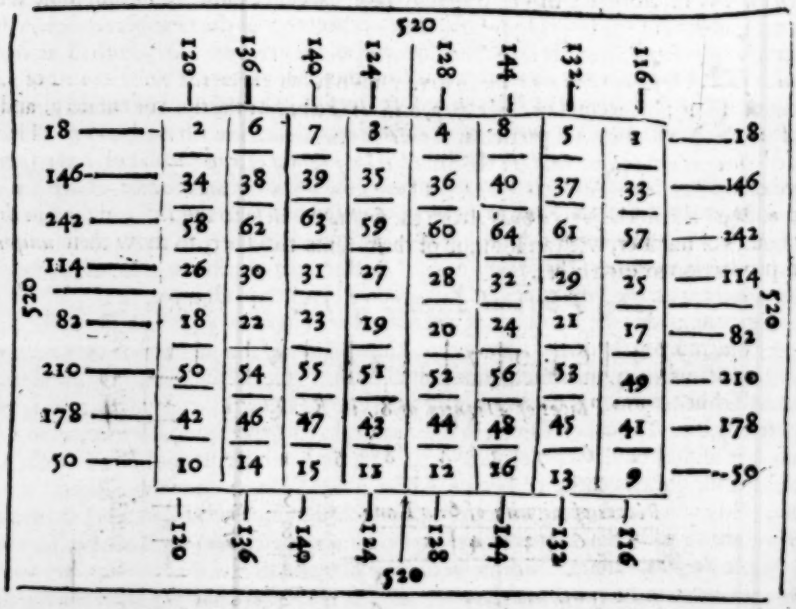
5
9
8
4
5
7
10
6
2

The Places of Dignity of 10. in File.

The Table of Dignity for 36. Men.



The Table of Dignity for 64. Men.



The

The Table of dignity for 100. men.

	230	250	270	255	235	240	260	265	245	225	
28	2	6	10	7	3	4	8	9	5	1	27
228	42	46	50	47	43	44	48	49	45	41	227
428	82	86	90	87	83	84	88	89	85	81	427
378	72	76	80	77	73	74	78	79	75	71	377
178	32	36	40	37	38	34	38	39	35	31	177
128	22	26	30	27	23	24	28	29	25	21	127
328	62	66	70	67	63	64	68	69	65	61	327
478	92	96	100	97	93	94	98	99	95	91	477
278	52	56	60	57	53	54	58	59	55	51	277
78	12	16	20	17	13	14	18	19	15	11	77
	240	260	280	265	245	250	270	275	255	235	

If you pleaſe to make an experiment of the *uniformity* and *proportion* that one *file* or *rank* holdeth with another, and would firſt make triall of a *file*, then *adde the number of one file together*; (which done) *adde the numbers* together of the next *file in dignity*, into one ſumme; then *ſubſtract the leſſer number out of the greater*, and you ſhall alwayes find, that [a] *one file precedes the other* no more then there are particular *places in a file*: as 6. in *files* of 6. *deep*, 8. in *files* of 8. *deep*, and 10. in *files* of 10. *deep*; the which makes no diſproportion, but are onely *numbers of diſtinctions*.

Would you make an experiment *between the dignity of rank and rank*? then, as before, adde the *ſimple numbers* together of *one rank*, the which being found, adde the *ſimple numbers* together of the next *rank* in *dignity*; the which in like manner being performed, *ſubſtract the leſſer number out of the greater*, and you ſhall find the remainder alwayes to be the *complete number of the ſquare body*. * As for example, in the table of *thirty ſix*, *adde the numbers of the firſt* rank (or *File-leaders*) together, and you ſhall find by addition twenty one; adde the numbers of the ſecond *rank* in *dignity* (which are the Bringers up) together, and you ſhall find fifty ſeven: then *ſubſtract* the number of the *firſt rank* from the *ſecond* in *dignity*, and the remainder will be thirty ſix, the juſt *number of the whole ſquare*. And ſo in like manner is the number of difference between every two next *ranks of dignity* in that Table. The other Tables, in like nature, having the ſame difference, according to the number of the body; either of thirty ſix, ſixty four, [b] or one hundred. But I doubt I ſhall be blamed for tedious curioſity, becauſe I have inſiſted longer upon this *Subject* then at firſt I intended; which makes me the more willing (though ſomewhat abruptly) to break from it, and come to ſhew the manner of *joyning* or *drawing up of files into Battalia*. To which purpoſe, the *Serjeants* are firſt *to draw forth their files*, and after *to lead them up into order*, according to every mans *worth* and *honour*; as, firſt *the right-hand file*, then *the left-hand file*, and ſo *the other files* ſucceſſively *within them*, according to their ſeverall *worths* and *places*: as by the following *form*, and the *figures* of number, you may plainly perceive.

[a] *Files precede each other in dignity according to their places. Each man in the right hand file precedirg him of the ſame place in the left hand file, which makes the difference of number between them 6. at 6. deep, 8. at 8. deep, &c.*

* *The difference between every next rank of dignity in the table of 36. is the ſame number.*

[b] *In the table of 64 the difference between the next ranks of dignity is 64. In the table of 100. the difference is the like number of 100. &c.*

Front.

Dignity of place.

Number of place.										Dignity of place.
	0	2	6	7	3	4	8	5	1	0
1	M	M	M	M	M	M	M	M		1
2	M	M	M	M	M	M	M	M		5
3	M	M	M	M	M	M	M	M		8
4	M	M	M	M	M	M	M	M		4
5	M	M	M	M	M	M	M	M		3
6	M	M	M	M	M	M	M	M		7
7	M	M	M	M	M	M	M	M		6
8	M	M	M	M	M	M	M	M		2
	0	8	7	6	5	4	3	2	1	0

Left Flank. Right Flank.

Number of place.

Reere.

If there be *any* that ſhall ſay, Theſe are *niceties*, and of no *repute* amongſt *Souldiers*: I dare ſay, they have been well *reputed* of by good *Souldiers*; no diſparagement unto the *fault-finders*, (if there happen to be any ſuch.) As for the *noble*, *worthy*, and *well-knowing Souldiers*, I am almoſt *confident*, that out of their true-ſpeaking *judgements*, they will either conclude that it is ſo *uſed*, or at the leaſt, that it *ought* ſo to be; but if this can *work* no *effect* with the — I leave every man freely to his own *judgement*, deſiring the *judicious* alwayes to hold a favourable opinion of my well-meaning.

CHAP. VI.

Of ſeverall diſtances.

[a] *Ignorant Souldiers moſt ambitious.*

NOw that our *Souldiers* have attained ſome ſmall knowledge in the uſe of their *Arms*, (me thinks, like ſome of our [a] *little knowing Souldiers* of the *Trained Bands*) they already begin to be ambitious of *File-leaders* places; therefore, that their own *weakneſſes* may light them to read their own *follies*, we will ſee how they will behave themſelves in the exerciſe of the Company. Where the firſt thing wee are to inſtruct them in, is their *diſtances*. But becauſe it is diſputable, whether *diſtance* be one of the *Motions* or no; we will firſt declare what *diſtance* is. To which I ſay, that indeed [b] *diſtance* it ſelfe is no *motion*, but there is *motion* in producing ſuch *diſtance*; for, *Diſtance is the ſpace of ground between man and man, either in file or ranke, having relation onely to the place between each party*: All the reſt of the *motions* having not onely relation to the one, but to the other. Wherefore, not to ſpend more time in a matter ſo apparent, we will ſay, that the *Diſcipline of a foot Company conſiſts chiefly in diſtance and motion*. And therefore ſeeing that *diſtance* is the fore-runner of *motion*, and that [c] no *motion* can be performed without *diſtance*, we will leave to diſcourſe it, and fall to the matter it ſelfe, and ſhew how many ſorts of *diſtance* is ordinarily uſed in our *modern diſcipline*; which are theſe *foure* hereunder named, *viz.*

[b] *Diſtance it ſelfe no motion.*

[c] *Without diſtance no motion can be performed.*

Diſtance of rank is to be underſtood between rank and rank.

Diſtance of file is to be underſtood between file and file.

The exact place from whence to meaſure your diſtance is from the center of your men, whether it be rank or file.

Cloſe Order,	which is	*One foot and a halfe.*
Order,	both in	*Three foot.*
Open Order,	Ranke	*Six foot.*
Double Diſtance,	and File	*Twelve foot.*

It hath been the opinion of ſome ancient Commanders, that the *diſtance of rank* was alwayes *double the diſtance of file*, although they went both under one and the ſame denomination: As that, *Order* in *file* was *three foot*, *Order* in *rank ſix foot*; *Open Order* in *file ſix foot*, *Open Order* in *rank twelve foot*; and ſo of other *diſtances*. But the beſt received opinions hold them to be alike both in *rank* and *file*. There is to be conſidered in *diſtance* theſe * *three* eſpecially, that is, *diſtance* for *march*, *diſtance* for *motion*, & *diſtance* for *skirmiſh*.

* *Theſe 3. diſtances eſpecially remarkable.*

You

You are to obſerve, that your *diſtance for march* is to be *three foot between file and file, and ſix foot between ranke and ranke*; *diſtance for motion ſix foot both in ranke and file*; *diſtance for intire doublings, wheelings, and skirmiſh, three foot in ranke and file. Cloſe order is uſefull* for your *files of Pike-men*, when they are to receive a *Charge* from the *horſe*: that ſo they may *ſtand* the *ſtronger*, by ſo much as they are the *cloſer ſerried together*: as alſo for the rankes of *Muſkettiers*, when they are to poure on a ſalue of ſhot.

It next followes, that I ſhew the *deuers words of command*, and direction; for the ſeuerall *openings* and *cloſings* of *rankes* and *files*. But I ſhall firſt recommend to the care of the *curious diſcipliner*; that in the firſt place he *command his Souldiers* to *euen* their *rankes*, and *ſtreighten* their *files*: to be *ſilent*, and *attentiue* to their *words of command*, and *direction*: which being performed, the *words of command* for *diſtance*, are as followeth.

Rankes and files to your cloſe order.

Files open to the right / *Rankes open forward* } *to your order.*

Files open to the right / *Rankes open forward* } *to your open order.*

Files open to the right / *Ranks open forward* } *to your double diſtance.*

Files cloſe to the right / *Ranks cloſe forward* } *to your open order.*

Files cloſe to the right / *Ranks cloſe forward* } *to your order.*

Files cloſe to the right / *Ranks cloſe forward* } *to your cloſe order.*

Files open to the left / *Ranks open backward* } *to your order.*

Files open to the left / *Ranks open backward* } *to your open order.*

Files open to the left / *Ranks open backward* } *to your double diſtance.* — *In motion of files you are to obſerve your Leader.*

Files cloſe to the left / *Ranks cloſe backward* } *to your open order.*

Files cloſe to the left / *Ranks cloſe backward* } *to your order.*

Files cloſe to the left / *Ranks cloſe backward* } *to your cloſe order.*

Files / *Ranks* { *open* / *to the* } { *right and left* / *front and reer* } *to your order.* — *In motion of ranks you are to obſerve your right-hand man.*

Files / *Ranks* { *open* / *to the* } { *right and left* / *front and reer* } *to your open order.*

Files / *Ranks* { *open* / *to the* } { *right and left* / *front and reer* } *to your double diſtance.*

Files / *Ranks* { *cloſe* / *to the* } { *right & left inward* / *middeſt* } *to your open order.*

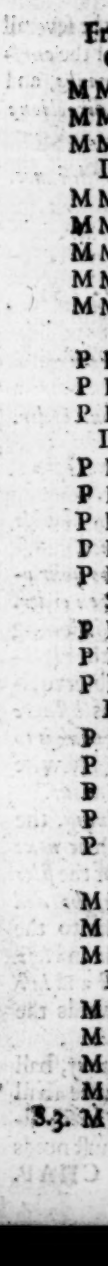
Note that when *files open* to the *right*, the *left-hand-file* muſt ſtand *faſt*, every *file* taking his *diſtance* from the *file* next his *left hand*; And when they *open* to the *left*, then the *right-hand-file ſtands*, every *file* taking his *diſtance* from the *file* next his *right hand*. Obſerve alſo that when *ranks open forwards*, then the *laſt ranke* ſtands, every *ranke* taking his *diſtance* from the *ranke* next behind him: And when they open *backwards*, then the *firſt rank is to ſtand*, every *ranke* to take his *diſtance* from the *ranke* next before him. You are likewiſe to take notice in the *action*, that you are either to *face* to the *right*, or to the *right about*. — *Obſervations for the opening of ranks and files.*

Note alſo, that in *cloſing* of *files*, if it be to the *right*, then contrary to *the opening*, the *right-hand-file ſtands*, the reſt *cloſing* to the *right*, taking their *diſtance* from their *next right-hand-file*. If you *cloſe* to the *left*, then the *left-hand-file ſtands*, the reſt of the *files cloſing* to the *left*, taking their *diſtance* in like manner. When *files cloſe to the right and left*, then they *cloſe inward*, taking their *diſtance* from the *files* within them, nearer to the *middeſt of the body*. Alſo note, that when *files* are commanded to *open* to the *right* and *left* (or by *diviſion*) it muſt be *outward*. If *ranks cloſe to front and reere*, then the *firſt* and *laſt rank* ſtand, the others taking their *diſtances* from them. If they *cloſe ranks* towards the *center* or *midſt*, then they *cloſe* towards their *two middlemoſt ranks*. — *Obſervations for the cloſing of ranks and files.*

It is not required that every *Captain* or other *Officer* that ſhall *exerciſe* a *Company*, ſhall uſe all theſe ſeverall *openings* and *cloſings* which are here expreſt, but rather that he ſhall make uſe of ſo many of them, as he ſhall think fit for his preſent occaſion or *exerciſe*; although they all may be uſefull, at ſome time or other. I may ſpare examples, for it muſt needs be apparent to the meaneſt capacity.

CHAP. VII.

Of Marching the Company in Divisions, with the order and places of the Officers and Drums.



OUr *Souldiers* now being somewhat *expert* in their *Distances*, wee will next draw them forth into a *deep March*. Wherefore note, that our *Files* must be at *Order*, and our *Ranks* at *Open Order*: the *Muskettiers* of the *right Flank* are to make the *Van*, and to *March* next after the *Captaine*: The *Pikes* are to make the *Battell*, and to *march* after the *Ensigne*, either in one or two *Divisions*, according to their number. The *Muskettiers* of the *left Flank* (sometimes called the *second Division of Muskets*) make the *Reere Guard*; which is *led* commonly by the *second Serjeant*. Howbeit, if there be but one *Division* of *Pikes*, then the *eldest* (or chiefest) *Serjeant leads* the *second Division of Muskettiers*. If the *Company* be but small, then it is best to make but two *Divisions*, one of the *Muskettiers*, another of the *Pikes*. For the *placing* of the rest of the *Officers*, you may perceive by the *Figure* in the Margent: Wherefore note, that M. stands for *Muskets*, P. for *Pikes*, D. for *Drums*, S. for *Serjeants*, E. for *Ensigne*, L. for *Lievtenant*, and C. for *Captain*.

Note, If you have but three *Drums*, then let the *Drum* in the second *Division* of *Pikes* be wanting: If onely two, then upon a *march* the first between the third and fourth *Rank* of the *Front Division of Muskettiers*. The second between the third and fourth *Rank* of the second *Division of Pikes*.

Note, that between each *Division* in *march* there ought to be *twelve foot distance*, six *foot* before the *Officer*, and six *foot* behind him.

CHAP. VIII.

Of drawing the Divisions up into a square.

WHen you would bring your *Body* againe into *Battalia*, command your *Front-division* to make *Alt* or *Stand*; then give order to your *Ensign*, either by a *Serjeant* or by some *sign*, to lead up the *first-division* of *Pikes* on the *left* of the *first-division* of *Muskettiers*, with his *Colours flying*, and the *Pikes* to continue *shouldred* so long as the *Drum* beats a *March*: But if it beat a *Troop*, then the *Pikes* are to *advance*, and *close their Ranks forward to their Order*, and so the *Ensign to troop them up with his Colours fierld*. The eldest *Serjeant* is to lead up the *second-division* of *Pikes*: The second *Serjeant*, in like manner, is to lead up the second or *reere-division* of *Muskettiers*; each *division* still *marching* up to the *left* of that *division* next before it. The manner you may plainly see in the *Figure*; where the *Front-division* is marked in the *Reere* with the letter F. The *first-division* of *Pikes* with the letter G. The *second-division* of *Pikes* with H. The *second-Division* of *Muskettiers* hath in the *Reere* the letter I. The other *Figure* following, in forme of a *square*, shewes their standing, after the *Divisions* are led up. All the *File-leaders* standing even in *Front* together, making one *Rank*.

C.
M M M M S.4.
M M M M
M M M M
D.
M M M M
M M M M
M M M M
M M M M
M M M M
F.

E
P P P P
P P P P
P P P P
D.
P P P P
P P P P
P P P P
P P P P
P P P P
G.

S. 1.
P P P P
P P P P
P P P P
D.
P P P P
P P P P
P P P P
P P P P
P P P P
H.

S. 2.
M M M M
M M M M
M M M M
D.
M M M M
M M M M
M M M M
M M M M
S.3. M M M M
L. I.

E. C.

2 6 7 3 2 6 7 3 4 8 5 1 4 8 5 1

S.2. 1 M M M M D. P P P P P P P P D. M M M M 1 S.1.
2 M M M M P P P P P P P P M M M M 5
3 M M M M P P P P P P P P M M M M 8
4 M M M M P P P P P P P P M M M M 4
5 M M M M P P P P P P P P M M M M 3
6 M M M M P P P P P P P P M M M M 7
7 M M M M P P P P P P P P M M M M 6
S.3. 8 M M M M D. P P P P P P P P D. M M M M 2 S.4.
L.

Diſtance of *place*, and *motions* of the *body*, are a part of the *Art Military*, uſed for the *inſtructing* and *diſciplining foot-ſouldiers*; whereby to fit and enable them to the *quicke*, *true*, and *orderly* performance of all *formes* and *figures* of *Battaile*, as may beſt ſuit with the *time*, *number*, *place*, and *diſcretion* of the *Commander*. And may rightly be divided into theſe *five* generall heads, (viz.) *Diſtance*, *Facings*, *Doublings*, *Counter-marches*, and *Wheelings*, which have (not unaptly) been compared to the *five Vowels*; for as without one or more of the vowels, no word can be ſpelled; ſo without one or more of theſe, neither *form*, nor *action* can be performed.

CHAP. IX.

What is meant by Facing, with the uſe of the word, whether to be uſed or refuſed.

BEfore we come to ſhew the variety of *Facings* in the action, I think it will not be amiſſe to ſpeak a word or two in the way of *definition*: What is meant by *Facing?* To which I anſwer, that, *Facing is a particular turning of the Aſpect from one part to another, whereby the Front-proper becomes a Front-accidentall: and a Front-accidentall may be reduced to his proper Front.* There are ſome ſo ſeemingly curious, that by no means they will allow of the word *Face*; concluding it altogether unneceſſary: and no other word muſt be given but, *To the Right*, *To the Left*, &c. Yet I wonder that men will *ſtumble* at ſo ſmall a *ſtraw*, which cannot chuſe but be better uſed than refuſed: For the word *Face* is but one ſillable, and quickly pronounced, and gives ſo clear an expreſſion of the intent of the *Commander*, that it concludes it neceſſary. As for example, Should you command a *Company* to *Double Ranks to the Right*, and then command them *as they were*, and then ſay, *To the Left*, it might *puzzle* a good *Souldier* at the firſt to diſcerne whether he ſhould *face* or *double*. The like miſtake might be among *Counter-marches*: Wherefore I conceive that none can juſtly taxe it for ſuperfluous, [a] ſeeing the eaſieſt expreſſion hath alwayes been accounted for the beſt. Yet ſpare me, for my intent is not to over-ſway any man in his opinion, but rather to deliver mine; leaving all men freely to their own likings.

The word Face neceſſary to be uſed.

[a] *The eaſieſt and plaineſt inſtructions are alwayes to be preferred in the teaching young Souldiers.*

If my intent were to make a great Book with a little matter, I might then here inſert *figures* for every particular *Facing*, and their *Reducements* to their firſt *Poſture*; which would take up divers ſheets of paper, and to little purpoſe: For I ſuppoſe that every man, that knowes any thing, may eaſily conceive the *Idea* of any ordinary *Facing* in his mind. Wherefore I will ſhew but one or two of the hardeſt. You are to obſerve, that for the true performance of [b] *Facings*, every man is to turn upon the *ball* or *center* of the *left-foot*, and to move from the ground onely with the *right*: The *left-foot* being the keeper of *rank* and *file*.

[b] *In the exerciſe of the motion of Facings, you are to be at open Order, in rank and file.*

Face to the { Right. / Left. / Right and Left. / Right about. / Left about. / Right and Left inward. / Right, Left. } Angle. / Foure Angles. } *Face as you were.*

When you face to any hand, in the reducement you are to returne by the contrary.

The *Front-halfe-files* ſtanding, it will be requiſite for the *halfe-files* to the *Reer* to doe as much by themſelves; whereby they will the more aptly perceive, how that the *Subdiviſion* goeth under the denomination of the *halfe-files*, &c.

Halfe-

Halfe-files face to the { Right. / Left. / Right and Left. / Right / Left } about. / Right and Left inward. } *As you were.*

There is a word which is ordinarily uſed, and proper, for *reducements* of *Facings*, which is, *To your Leader.* *Face to your Leader, a word of Reducement.*

There is another *Facing* alſo ſometimes *commanded*, which is, *Face to the Center*; and is moſt proper when the *body ſtands* in ſome *circular form*, or *hollow ſquare*. Wee have alſo a *Facing* which cauſeth the Body to *face* to the *Front*, *Reer*, and *Flanks*, which ſome call, *Facing ſquare*.

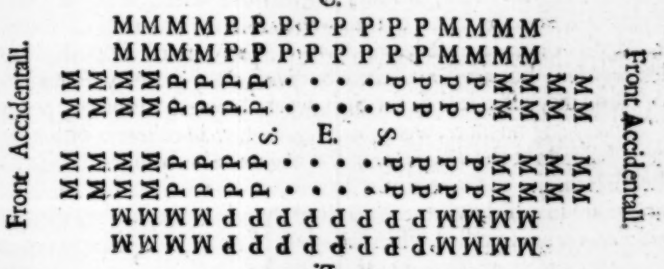
CHAP. X.

Of Facing ſquare, and how to perform it; the uſefulneſſe of Facings, and the ſeverall parts thereof.

WHen wee inſtruct our *Souldiers* how to *face ſquare*, (if the *Body* be but 8. *deep*) command the *two firſt Ranks ſtand faſt*, the *two laſt Ranks face about*, *the reſt of the Body face to the right and left*. If the *Body* be *deeper*, we command more *Ranks* to the *Front*, and ſo likewiſe to the *Reer*. It will be very neceſſary for *young Souldiers* to move 10. or 12. *paces* upon every *motion* of *Facings*, whether they are *entire*, or *diviſionall*. I will now prick two ſeverall *figures* of *facing*, which will be ſufficient to demonſtrate all the reſt.

The Command is, *Face ſquare and march.*
The Direction is, *Two firſt Ranks ſtand.*
Two laſt Ranks face-about.
The reſt of the Body, face to the right and left.
(then) *March all.*

Proper Front.

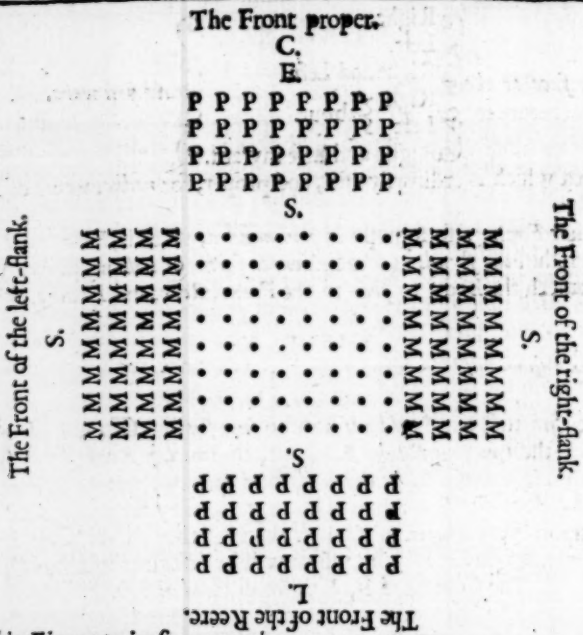


When your *Souldiers* begin any *motion*, let them *advance* their *Pikes*, and *ſhoulder* their *Muſquets*. When they come to a *ſtand* (and have performed their *direction*) let them *order* their *Armes*; that is, to *reſt their Muſquets*, and *order their Pikes*.

To reduce them to their firſt order.

Face all about to the right, March and cloſe your diviſions.
Face all to your Leader, (who then ſtands at his *Front proper.*)
Facing ſquare another way, and *Marching* upon it.
The Command is, *Face ſquare, and march.*
The Direction is, *Muſquettiers face to the right and left.*
(Next) *Halfe-files of Pikes, face-about to the right.*
(Laſt) *March all.*

The



To reduce this *Figure* to its former *order*.

Face all about to the Right, March and cloſe your Diviſions.

Face all to your Leader, and then they are reduced.

The neceſſity of Facings, and how uſefull.

Facings are ſo *uſefull* and *neceſſary* that you may as well diſpenſe with any one of the *grounds* of this *Art*, as with them; for they are *uſefull* almoſt upon all occaſions, and not onely ſooner *executed* then any other of the *motions*, but may be *needfull* when *Wheelings* and *Counter-marches* cannot be uſed, as in a *ſtrait*. There are no more then *foure Facings intire*, beſides *angular*; but *diviſionall* there be divers: and indeed very neceſſary many of them be, as occaſion may offer it ſelfe for their ſeverall *uſes*; howſoever, peremptorily to ſay, there be ſo many and no more, were too reſtrictive, and I conceive hath been concluded by none; but it ſtill reſts at the *diſcretion* of the *Commander*, to *exerciſe more or fewer of them*, as he beſt liketh, and the neceſſity requireth, either for *action* or *exerciſe*.

Intire. *Intire Facings* are ſo called, when the *aſpect* of the *whole company* are directed one way.

Diviſionall. *Diviſionall Facings* are ſo called, when the *aſpect* of the *ſouldiers* are at one and the ſame time *directed divers and ſeverall wayes*; as, to the *front* and *reere*, the *right* and *left*, or to all *foure* at once, &c.

Angular. *Angular Facings* are ſo called, when the *aſpect* of the *company* is directed to the *right corner* man, which is the *right-angle*, or to the *left corner* man, which is the *left-angle*; or to the *foure corner* men, which are the *foure angles*.

The uſe of Angular Facings. *Angular Facings* were of great repute among the Ancients, for their *figures* called the *Diamond*, the *Wedge*, the *Sheers*, the *Saw*, and ſuch like, when they made ſuch *formes* of *Battell*: But in our *moderne diſcipline* I conceive them to be of little or no uſe, onely thus we honour the memory of the Ancients, in their practice. And ſome ſay they are very fit for *exerciſe*; for that by their uſe the *ſouldier* is made more *apt* and *perfect* in the other. Therefore let this ſuffice to be ſpoken concerning *Facings*, and now be pleaſed to turne your *aſpect*, and take a *view* how our *young ſouldiers* will behave themſelves in the performance of the *doublings*.

CHAP.

CHAP. XI.

Of Doublings, their use and parts.

Doublings are to most excellent and singular good use for the *strengthening* of any part of the *Battell*, according to the occasion, or discretion of the Commander; and *consists* of these *two generalls*, *Doublings of length*, and *Doublings of depth*; all times in *quantity* of *number*, sometimes both in *number* and *place*; both having this *restriction*, to be *doublings* of *ranks* or *flanks*: Every particular *doubling* pointing at one of these, although there be *sundry* and *divers wayes* for the doing of them, each of them being to very good purpose, for some consideration or other. *Doublings* of [a] *ranks*, from what *forme* soever it be done, doth make the *number double* so much as it was before; and sometimes doth *extend* the *length* of the *Battell* to *double* the *proportion* of *ground* as well as *number*.

Doublings of [b] *files* (or *flanks*) doe also *double* the *number* in *depth*, and sometimes becomes a *doubling* both of *number* and *place*. Wherefore for the better understanding of *doublings*, observe with me these *six* usuall wayes following.

The severall parts or branches of Doublings.

Doublings of	Ranks.	1.	Doublings of	The Reere.	4.
	Halfe-files.	2.		Files.	5.
	Bringers-up.	3.		Halfe-ranks.	6.

The first is the *doubling of ranks*, and is when every *even rank doubleth into the odde*. The second is, when the *halfe-files double their ranks forwards into the front*. The third, when the *Bringers-up double their ranks forwards into the front*. The fourth, when the *front-halfe-files double the reere*. These first foure being *doublings* of *Ranks*, the *length* of the *Battell* being by them *extended* either *simply* in *number*, or both in *number* and *place*. The next two are *doublings* of *flanks*; the first whereof is the ordinary *doublings of files*, every one of the *even files* being inserted into the *odde files*, accounting from the hand named. The next is, the *doubling* of *halfe-ranks*, which is to be understood when one *flank doubleth the other*, either by *passing through*, *counter-march*, *doubling entire*, or *divisionall*.

You are to note in this *motion* of *doubling*, that as there is one part of the *body standes*, so the other part *moves*: the *standing part* is to be *doubled*, the *part moving* are those that *double*; as you may perceive by the *Figures*, which shew the manner of each *doubling*. That which next followes are the words of *command*, and *direction* for *doublings*, with the severall *reducements* following next after them.

The words of Command for Doublings, with the Reducements.

Ranks to the {Right / Left} double. {*Ranks as you were.*}

Files to the {Right / Left} double. {*Files as you were.*}

Bringers-up, double your Ranks forward to the right.

Bringers-up, face-about to the left, march forth into your places.

Bringers-up, double your Ranks forward to the left.

Bringers-up, face-about to the right, march forth into your places.

Files to the right {outward. / and left double {inward.} {*Files as you were.*}

Halfe-files, double your Ranks forward to the right.

Halfe-files, face-about to the left, march forth into your places.

Halfe-files, double your Ranks forward to the left.

Halfe-files, face-about to the right, march forth into your places.

Front-halfe-files, face-about to the left, {and double the Reere to the right. / *March forth into your places.*}

[a] *Doublings of Ranks always extending the length, either in number, or place, or both.*

[b] *Doublings of files (or flanke) always extending the depth, either in number, or place, or both.*

Note, that the distance for particle and divisionall doublings is open order in rank and file. Note also, that the ordinary doublings of ranks and files is or ought to be performed by three steps, first stepping forth with that foot which is next unto the place named, and in the reducement returne by the contrary hand.

Note that in doublings of ranks and files, if you double ranks to either hand, double

ling of files to the contrary, reduceth them. Or in doubling of files to and hand doubling of ranks to the cõtrary will redu. e them

Front-halfe-files face about to the right. { and double the reere to the left. / *March forth into your places*

Front-half-files counter-march to the right. / Front-half-files counter-march to the left. } and double the Reere.

The word of reducement for either, is, *Front-half-files as you were.*

Note that upon all motions of doubling, that they who are to double, before they move from their places, are to advance their Pikes, and shoulder their Muskets.

Halfe-ranks to the right, by counter-march double your left-flank.
Half-ranks that doubled face to the right, march forth into your places.
Half-ranks to the left, by counter-march double your right-flank.
Half-ranks that doubled face to the left, march forth into your places.
Half-ranks of the right, double your left-flank.
Half-ranks that doubled, face to the right, march forth into your places.
Half-ranks of the left, double your right-flank.
Half-ranks that doubled, face to the left, march forth into your places.
Half-files double your front to the right intire.
Half-files face about to the left, march forth into your places.
Halfe-files double your front to the left intire.
Halfe-files face about to the right, march forth into your places.
Halfe-files double your front inward intire.
Halfe-files face about to the right, march forth into your places.
Halfe-files double your front by division.
Halfe-files face about to the right and left inward, march forth into your places.
Front-halfe-files double your reere by division.
Front-halfe-files face about to the right and left inward, march forth into your places.
Front-halfe-files double your reere to the right intire.
Front-halfe-files face about to the left, march forth into your places.
Front-halfe-files double your reere to the left intire.
Front-half-files face about to the right, march forth into your places.

When they have performed their doubling, they are to conforme to the postures of those whom they double, whether it bee Order, Advance, or Shoulder.

Halfe-ranks of the right, double your left flank intire, advancing.
Halfe-ranks that doubled, face to the right, march forth and take your places.
Halfe-ranks of the left, double your right-flank intire, advancing.
Half-ranks that doubled, face to the left, march forth and take your places.
Halfe-ranks of the right, double your left-flanke by division.
Halfe-ranks that doubled, face about to the right, march forth into your places.

Note that all intire doublings are to be performed after one in both ranks and files.

Double your ranks to the right intire.
Ranks that doubled, face to the left, and march into your places.
Double your ranks to the left intire.
Ranks that doubled, face to the right, and march into your places.
Double your ranks by division.
Ranks that doubled, face to the right and left inward, and march into your places.
Double your files to the right intire, advancing.
Files that doubled, face about to the left, march down into your places.
Double your files to the left intire, advancing.
Files that doubled, face about to the right, march down into your places.

* Or it may be reduced by halfe-files (that is) double your ranks forward to the contrary hand.

Files, double your depth intire to the { right. / left. } * *Files that doubled, as you were.*

Files

Files, double your depth to the right, every man falling behind his bringer-up.
Files that doubled, as you were.
Files, double your depth to the left, every man falling behind his bringer-up.
Files that doubled, as you were.

CHAP. XII.

Of Inversion, and Conversion, and of doubling ranks.

THere is yet another *doubling* of the *depth*, which is called *Inversion*. But becauſe ſome out of their ignorance make little or no difference betwixt *Inverſion* and *Converſion*, give me leave for the cleering of the doubt, to place *Converſion* and *Inverſion* together, that by their contrary *effects* the difference may be the more *perſpicuous*, to ſuch as ſhall be deſirous to know them. Yet before I either enter upon *Figure* or *Comand*, for *Inverſion* or *Converſion*, I hold it neceſſary to ſhew ſome of the *Figures* of thoſe *Doublings*, for which I have already given the words of *Command* and *Reducements*. And then next after them, I will place both the *words* of *Command*, and the *Figures* belonging to *Inverſion* and *Converſion*.

This *Figure* next following is a *doubling* of *Ranks* to the *Right*, where you may perceive how the *even ranks* are *inſerted* into the *odde ranks*: the *pricks denoting* the *places* they *ſtood in* before the *doubling* began, the *little line* or *ſtroke* drawn from the *pricks*, ſhewing the manner of the *doubling*: I thinke it would be needleſſe to make another *figure*, to ſhew the *doubling* of *ranks* to the left; for the meaneſt judgement may by this *figure* eaſily apprehend what the other would be.

Note that in the doubling of ranks, the even ranks are to double into the odd, beginning always to reckon from the firſt rank.

The Command is, *Ranks to the right double.*
The Direction is, *Every even Ranke move at three ſteps into the odde.*

Front.

	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
1	M	M	M	M	M	M	M	M	P	P	P	P	P	P	P	P	
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	M	M	M	M	M	M	M	M	P	P	P	P	P	P	P	P	
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	M	M	M	M	M	M	M	M	P	P	P	P	P	P	P	P	
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	M	M	M	M	M	M	M	M	P	P	P	P	P	P	P	P	
8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Left Flank. Right Flanke.

Reere.

Ranks as you were, or, *Files to the left double.*

CHAP. XIII.

Doubling of Files.

IN *doubling* of *files* ever obſerve this *rule*, that the *even files* are to be *inſerted* into the *odde files*: alwayes beginning from the *hand named*: as for example, in this preſent *doubling* of *files*, the *left-hand-file ſtands faſt*, the ſecond *file doubleth* into it, the *fourth file* into the *third*, and ſo for the reſt. If your command be to *double* your *files* to the *right*, then contrariwiſe the *right-hand-file ſtands faſt*, the reſt of the *even files doubling* into the *odde*, accounting from the *right*, as before from the *left*. Thus much may ſuffice for the *doubling* of *files*: onely take this by way of admonition; that as in *doubling* of *ranks* any way, you are to obſerve your *right-hand-leader*: ſo in *doubling* of *files*, you are to obſerve your *file-leader*; ſo that as neer as poſſibly may be, you may either in *ranke* or *file* be altogether in one *motion*. If you pleaſe further to obſerve with me, that this *doubling* is a *doubling* of *number*, and not of *place*, the *depth* of the *battell* not being thereby *extended*, for further ſatisfaction obſerve this *Figure*.

In doubling of files, note if the doubling bee to the left, as in this figure, that every man of the even files ſtepe behind his left-hand man, at

The Command is, *Files to the left, double.*
The Direction is, *Every even file from the left, at three steps move into the odde.*

three steps, every even file doubling into the odd files, always beginning to account with the outmost file to the hand named; as I have formerly said.

Front.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	M	/	M	/	P	/	P	/	P	/	P	/	M	/	M	/	
	M		M		P		P		P		P		M		M		
2	M	/	M	/	P	/	P	/	P	/	P	/	M	/	M	/	
	M		M		P		P		P		P		M		M		
3	M	/	M	/	P	/	P	/	P	/	P	/	M	/	M	/	
	M		M		P		P		P		P		M		M		
4	M	/	M	/	P	/	P	/	P	/	P	/	M	/	M	/	
	M		M		P		P		P		P		M		M		
5	M	/	M	/	P	/	P	/	P	/	P	/	M	/	M	/	
	M		M		P		P		P		P		M		M		
6	M	/	M	/	P	/	P	/	P	/	P	/	M	/	M	/	
	M		M		P		P		P		P		M		M		
7	M	/	M	/	P	/	P	/	P	/	P	/	M	/	M	/	
	M		M		P		P		P		P		M		M		
8	M	/	M	/	P	/	P	/	P	/	P	/	M	/	M	/	
	M		M		P		P		P		P		M		M		

Left Flank. Right Flank.

Reere.

The Reducement, *Files, as you were:* or, *Ranks to the right, double.*

CHAP. XIV.

Of Doubling by Bringers-up.

In this doubling of ranks by bringers-up, as likewise in all other of like nature, they that are to move are to advance their pikes: But if the Commander please, it will be best for the ease of the musketiers to be shouldred. And upon all doubling of ranks whatsoever, let them be sure to observe their right-hand man.

THe *Doubling* which next followeth, shall be a *doubling* by *Bringers-up*; of which sort, one *Figure* will be sufficient; which I hold most necessary to demonstrate in manner of *motion*: the *Command* and *Figure* followeth.

The Command is, *Bringers-up, double your Ranks forward to the right.*
The Direction is, *The last Rank passe forward to the right, and Rank even with the Front, the rest following successively.*

Front.

	2	6	7	3	2	6	7	3	4	8	5	1	4	8	5	1	
1	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	1
2	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	5
3	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	8
4	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	2 4
	8	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M
5	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	6 3
	7	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M
6	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	7
	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

Left Flank. Right Flank.

Reere.

The Reducement, *Bringers-up, Face-about to the left, March forth into your places.*

This *doubling of Ranks by Bringers-up*, differeth from the other *doubling of Ranks* which I first shewed, not onely in regard of the *distance* between the *Ranks*, and *quantity of ground*, but also in the *dignity* of the *Doublers*.

Files

First, it differeth in *place*, the former leaving *larger diſtance* between *rank* and *rank*, being *double that diſtance* they formerly *ſtood at*: this, to the contrary, continuing and preſerving the *diſtance* they firſt had between each *rank*, and leaving all that ground the *halfe-files formerly occupied*; as you may in part perceive by the *little pricks* at the bottom of the *Figure*.

It differeth alſo in *dignity*, bringing the *beſt* and *ſecond ſort of Souldiers* together into the *Front*: the other producing the *fifth rank in dignity to be doubled into the firſt*, &c. The manner of the *doubling* you may plainly perceive by the *Figure*; the *motion* of this *doubling*, and way to perform it, is as followeth: The *eighth*, or *laſt rank*, which are the *Bringers-up*, paſſe forwards *even in ranke*, through or between the *intervals*, to the *right* of them that ſtand before them, untill they come *even in rank* with the *Front*: the *ſeventh rank* following thoſe which *marched* from behind them, placing themſelves in the *ſecond ranke*; the *ſixth* in the *third*; the *fifth ranke*, or *halfe-file*, in the *fourth* or *reer* of the *front-halfe-file*. This *doubling* maketh a very able *front*, in bringing all the beſt *Souldiers* together. And although it hath *diminiſhed* the *number* in regard of the *depth*, yet it hath *doubled* the *number* in the *length*. This *doubling* is in *quantity* of *number*, not of *ground*. When you *reduce* them into their *places*, remember this, that the *rank* which laſt took his *place* in the execution of this *motion*, muſt firſt *march* into his *place* in the way of *reducement*: for as they are led-on by their *bringers-up*, contrariwiſe they are led-off by their *half-file-leaders*. *This doubling is a great ſtrengthning to the Front.*

In the *doubling* of the *Front* to the *left* by *Bringers-up*, it is the ſame; onely differing in the hand: Wherefore let this ſuffice for *doublings* by *Bringers-up*.

CHAP. XV.

Doublings of files outward and inward.

THe next *doubling* is a *doubling of files outward*; which works the ſame effect as to *double files* to the *right and left*: for the *right flank* is to *double to the right*, the *left flank* to the *left*. As you may plainly perceive by the following *Figure*.

The Command is, *Files, to the right and left double outward.*

The Direction is, *The out-moſt files of each flank ſtand, the even files from each flank double into the odde.*

Files as you were.

This *doubling* of *files* to the *right* and *left outward*, strengthneth *both* the *flanks* at *once*, by *doubling* their *numbers* in *depth*: But it *weakeneth* the *inward part*, where it taketh *two files* clean away leaving a *large intervale* in the *midst*. Some say, it is good when a *Commander* will grace any, to bring them through the *center* or *midst* of the *Battalia*. But you must note, if you have an odde *file* you cannot so punctually performe it, as when the *number* of your *files* be *even*. The manner of the *doubling* you may perceive by the *figure*, the *motion* by the *little lines* drawne from the pricks, the performance is as followeth.

The *outmost file* of each *flank stands*, the second *file double into them*; the third *file* from each *flank stands*, the fourth *file double* into the third, the sixth into the fifth, and so likewise for the rest.

Doubling files to the right and left inwards.

If you would *double files* to the right and *left inward*, it is to be done the contrary way; for whereas in this *figure* of doubling last performed, the *outmost files* stand, the other *doubling outward* into them: contrariwise the two *inmost files* should stand, the rest *doubling* to them *inward*: and whereas in this there is a *larger distance* in the *midst*, then is in any other part, the other part *contra* would be *closest* in that part. Some men doe not approve of either of these *doublings*. I leave every man to his owne choice. The *practice* tends to *perfection*, and he that can doe much may doe lesse when he listeth.

CHAP. XVI.

Of doubling by halfe-files.

THe next doubling is a *doubling* by *halfe-files*, whereby the *length* of the *battell* is extended to *double* the former proportion of *number*, the *depth* being extenuated both in *number* and *place*. This *Figure* will demonstrate unto you the manner of the *motion*, which is as followeth.

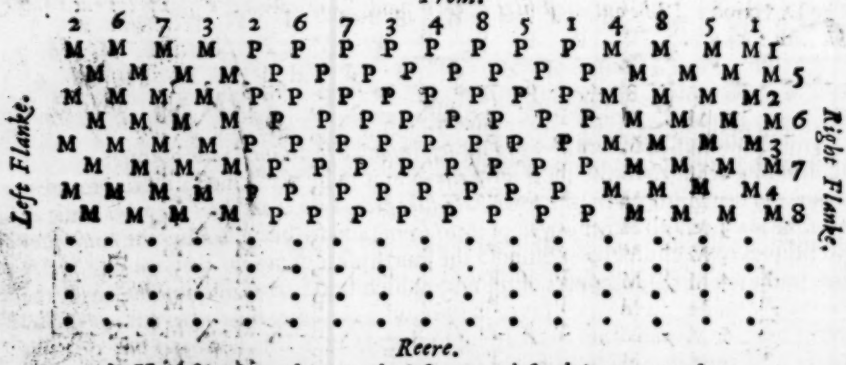
The Command is, *Halfe-files, double your Ranks forward to the right.*

The Direction is, *Half-file-leaders passe forwards to the right into the front, the rest of the ranks following successively.*

Front.

	2	6	7	3	2	6	7	3	4	8	5	1	4	8	5	1		
	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	1	
	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	5	
	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	2	
	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	6	
	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	3	
	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	7	
	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	4	
	M	M	M	M	P	P	P	P	P	P	P	P	M	M	M	M	8	
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		

Left Flanke. *Right Flanke.*



Reere.

Half-files face about to the left, martch forth into your places.

Doubling by half-file by the Greeks called pa. tembole, *or insertion* Tact. Ælian. 31. &c.

This *doubling of Ranks forward* by the *half-files*, *is a Motion* generally approved of by all for serviceable, if it be done with conveniency. It differeth from the other *doubling* by *bringers-up* in *quality* not in *quantity*, (for therein they keep one proportion:) In *quality* it differeth thus: *The doubling by bringers-up* brought the *best* and *second* sort of *souldiers* together into the *front*, the *fourth* and *third* sort into the *reere*: so that the *reere* was worse then the *front* $\frac{4}{2}$: this doubling by *halfe-files* brings the *best* and the *third* toge-

together into the *front*, and leaves the *ſecond* and *fourth* in the *reere*: ſo that the *front* is made more able then the *reere* by $\frac{1}{3}$. It differeth likewiſe in *Motion*; For whereas in the other doubling by *bringers-up*, the *Motion* was begun by the laſt *ranke*, every *Ranke* following the *ranke* which came from behind them: this contrariwiſe is directly led forth by the *fifth ranke* from the *front* (if they be but *eight deep*) and ſo is executed more ſurely and ſuddenly; the *fifth rank* paſſing into the *firſt*; the *ſixth rank* into the *ſecond*; the *ſeventh* into the *third*, and ſo for the reſt. For the **reducement*, when they are commanded to *face about to the left, and march forth into their places*, then as the motion was led on by the *half-file-leaders*, ſo in the *reducement* they are led off by the *Bringers-up*: *Doubling* of *half-files* to the *left* produceth the ſame effect, only the contrary hand.

Doubling by half-files makes the front to precede the reere by one third.

**In the reducement of this doubling the bringers-up are the leaders of the motion.*

CHAP. XVII.

Of doubling the Reere by front-half-files.

THe *doubling* of the *Reere* by *Front-half-files* is differing from the *doubling* laſt ſhewn, more in *manner* then *matter*; both concurring in ſubſtance, although differing in circumſtance. To ſay more of it were more then needed, only peruſe the *figure*, which preſents it ſelfe unto you (as it is in *Motion*.)

The Command is, *Front-half-files, double your reere to the right.*

The Direction is, *Front-half-files face to the reer, and march down even to the laſt rank.*

First Front.

Reere.

Front-half-files, face about to the left, march forth into your places.

This *doubling* of the *Reere*, by the *front-halfe-files*, is to be performed after this manner. (The *command* being firſt given) the *front-half-files face about to the left* (the *pikes* being all *advanced*, the *muſquets* all either *poyſed* or *ſhouldered*) and ſo being *led* by the *halfe-file-leaders* to the *reer*, which are thoſe that hold the fourth place of *honour*, they *march directly forwards* to the *left* of the other part of the *body*, which ſtood *faced* in *oppoſition*, untill the *leaders* of the *doubling* have *ranked* even in *rank* with the *bringers-up*, the reſt *ranking even* with the other *ſtanding ranks*, according to their *places*: If it be for *ſervice* that this *doubling* is uſed, then the whole *Body* is to *face about* to the *reere*, being the *part* to be *doubled*: If onely for *exerciſe*, then the *Commander* may (if he pleaſe) keep his *place*, and the *doubling* being performed, *face* the *whole body* to the *Leader*, and *command* for the *reducement*; *Files to the right, double entire advancing*; which *reduceth* each man to his firſt *place*.

The Rank which holds the fourth place of honour are the leaders of the motion.

CHAP. XVIII.

Of doubling the Reere by Counter-march.

THere is another manner of doubling of the reer, by the front-half-files, contrary to that ſhewn in the precedent chapter, which is done by the way of the *Lacedemon-counter-*

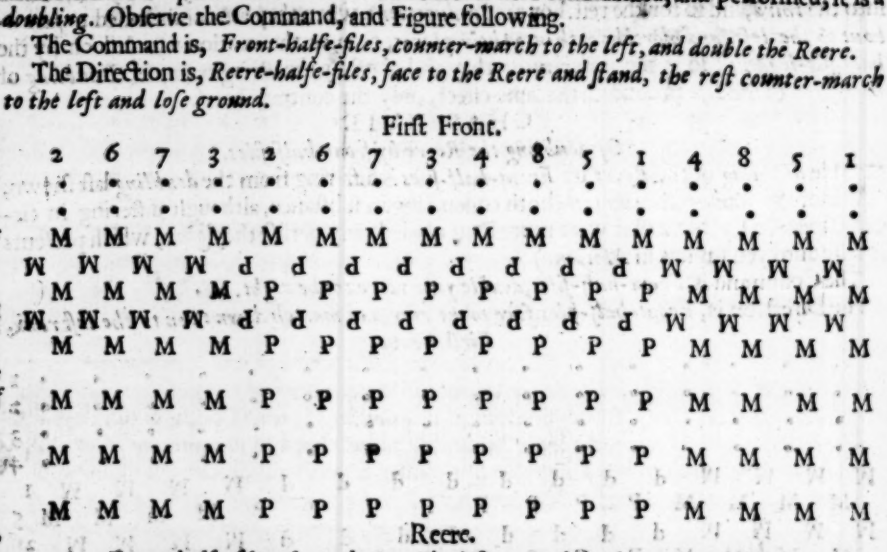
march,

march, which ſome would rank amongſt the *Counter-marches*; becauſe (ſay they) the *motion* is a *Counter-march*: But the *act intended*, or thing wrought, is a *doubling*; and if it were to have the denomination of a *Counter-march*, then it ought not to mix with any other part of the *Body*; onely to *counter-march the front into the midſt*, and there to ſtand, without paſſing forward to the *Reere*, (which makes it a *doubling*) and then it might be accounted for a * *part-counter-march*: But as it is here commanded, and performed, it is a *doubling*. Obſerve the Command, and Figure following.

* *A part-counter-march is when one moity or part of the Body counter-marches thereby not altering the number of the length or depth of the figure; but onely transferring one part into another. It is at the diſcretion of the Commander to face the Company which way he pleaſeth, either for motion, or reducement of any motion formerly performed.*

The Command is, *Front-halfe-files, counter-march to the left, and double the Reere.*

The Direction is, *Reere-halfe-files, face to the Reere and ſtand, the reſt counter-march to the left and loſe ground.*



Front-halfe-files, face-about to the left, march forth into your places.

This *doubling* of the *Reere* by *counter-march*, produceth the ſame effect to the *Reere* as *doubling the Front* by *Bringers-up* doth unto the *Front*: The *Counter-march* by which it is performed, is *a Counter-march of loſſe of ground*; we will ſpeak more of it amongſt the *Counter-martches*. The Command to reduce it is, (if the Commander ſtand at the head of that part that is doubled) *Front-halfe-files, face-about to the left, march forth into your places*. If hee keep his firſt ſtand, having faced them to him, then, *Front-halfe-files, march forth into your places*. To double the *Reere* to the *left* by *Counter-march*, is the ſame, differing onely in the hand. I will next ſhew a *doubling* of the *left-flank* by way of *Counter-march*.

CHAP. XIX.

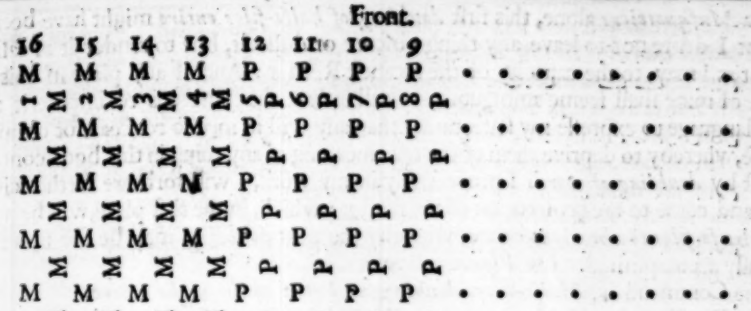
Of doubling Flanks by way of Counter-march.

HAlfe-*Ranks* (or *Flanks*) are then ſaid to be *doubled, when the depth of your Battalia is encreaſed to double their former proportion of Number or Place*, (or both;) which may be done divers wayes. But this Chapter and Figure is onely to demonſtrate unto you *the doubling of the Left-flank by way of Counter-march*. The Figure followeth, as the *doubling* is in *motion*.

The Command is, *Halfe-ranks to the right, by Counter-march double your Left-flanke.*

The Direction is, *Face to the right, and counter-march to loſe ground.*

Front.



Halfe-ranks that doubled, face to the right, Martch forth into your places.

This *doubling of halfe-ranks by counter-martch* is a *doubling of number*, not of *place*; for the *depth* ſtill retaines the ſame proportion in *quantity of ground*, onely augmented by one man, the *length of your Battalia* being diminiſhed both in *number and place*; the *right-flank being wholly inſerted into the left-flank*: as you may perceive by the Figure. The motion is to be performed on this manner: *The halfe-ranks of the right face to the right, and then even in rank together counter-march between the Intervales*, untill the out-moſt *file* to the *right*, which is marked with the figure 1, be come into the out-moſt *file* of the *left-flanke*, which is marked with the number 16; the ſecond into the fifteenth; the third into the fourteenth; the fourth into the thirteenth; and the reſt in like manner. The uſe of this *doubling* is, to ſtrengthen one of the *flanks*, by bringing more hands to doe preſent execution, the other *flank* being in more ſurety. The way for the reducement of this motion is after this manner: *The halfe-ranks that doubled being faced to the right*, then they which were the laſt in taking their *places* in the *motion*, now are the firſt which take their places in the *reducement*, orderly *martching in rank together*, untill they come to their places; then *facing* to their *Leader* they become *files* againe. The *left-flank* may in like manner *double the right by counter-martch*; the difference is this: the *right-flank ſtands*, the *left-flank is inſerted into the right*, as before the *right was into the left*. To ſhew another *Figure* for it would be altogether needleſſe.

The uſe of this doubling.

Obſerve the manner of the reducement.

CHAP. XX.

Doubling halfe-files to the right entire, to accommodate the doubling of halfe-ranks.

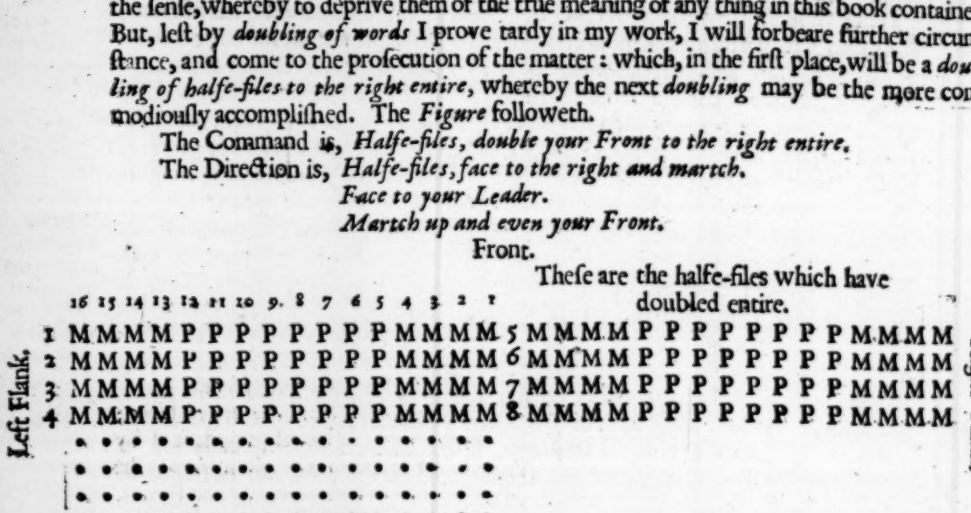
I Should now come to ſhew another manner of *doubling of flanks*, by *inſerting the one flank* into the other, a different way from that laſt ſhewn: but if I ſhould performe it as the Body ſtands in the ordinary *Square, flanked with Muſquettiers*, then it would produce a mixture of Armes. To avoid which, before you enter upon this *doubling* of *paſſing in, through*, or *between your halfe-ranks*, cauſe your *halfe-files to double the Front to the right entire*; which being performed, you may then proceed to the *doubling* of your *flanks* any way, without mixture of Armes. If I ſhould have ſhewen this motion with

Pikes or *Muſquettiers* alone, this firſt *doubling of halfe-files entire* might have been ſpared; but I deſire not to leave any thing obſcure or difficult, but to render it as eaſie and apparent as I may, to the capacity of the meaneſt Reader: And if any place in this ſmall Treatiſe of mine ſhall ſeeme ambiguous, I ſhall intreat the courteous to impute it to my lack of language to expreſſe my ſelfe, rather than any will in mee to conceale or obnubilate the ſenſe, whereby to deprive them of the true meaning of any thing in this book contained. But, leſt by *doubling of words* I prove tardy in my work, I will forbeare further circumſtance, and come to the proſecution of the matter: which, in the firſt place, will be a *doubling of halfe-files to the right entire*, whereby the next *doubling* may be the more commodiouſly accompliſhed. The *Figure* followeth.

The Command is, *Halfe-files, double your Front to the right entire.*

The Direction is, *Halfe-files, face to the right and martch.*
Face to your Leader.
Martch up and even your Front.

Front.



Reere.

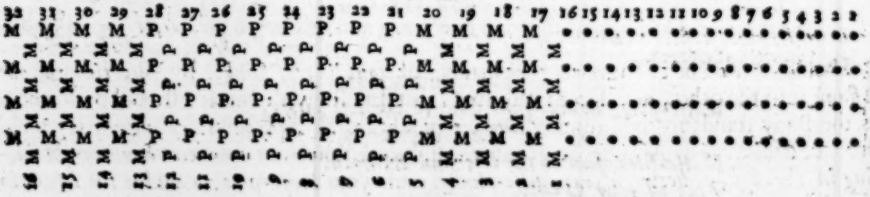
This *doubling of halfe-files to the right entire*, I have fully expreſt in the *Figure*, as the Body ſtands, the motion being ended; becauſe we are to adde another *doubling* before we reduce them. This Figure next following will be beſt ſhewn in the motion (or action) not fully performed: that thereby the manner may be the more eaſily diſcerned. But by the way obſerve, that this *doubling of halfe-files, is a doubling both of number and place*; for the *length* of the *Battalia* is not only *double ſo many a breſt as they were before*, but they alſo have *extended* their *length* to *double* their proportion of *ground*, which formerly they did occupy. I forbeare to ſpeak more of this *doubling* untill wee come to ſhew it in motion: and now proceed to the next *doubling* upon this.

Alternate Doublings are Doublings both of number and place.

The Command is, *Halfe-ranks of the right, double your left-flank.*

The Direction is, *Halfe-ranks of the right, face to the left and martch, face to your Leader.*

Front.



Reere.

Halfe-ranks that doubled, face to the right, martch forth into your places.

This

This *doubling* of *halfe-ranks* is a more ſpeedy and ſure *doubling* then the *doubling* of *halfe-ranks* by *counter-martch*: notwithſtanding, it is moſt commonly uſed when the Body conſiſts but of one ſort of Armes, being either all *Muſquettiers* or all *Pikes*. Nevertheleſſe, becauſe in my Figures I have as well *Muſquettiers* as *Pikes*, I have made uſe of a *doubling by halfe-files entire*, and from that have *doubled my left-flank*, ſo to prevent the *mixture* of *Armes*. However, [a] *mixture* of *Armes* upon ſome occaſion may be *neceſſary*. The manner to performe the motion is this, *The left-flank ſtands, the halfe-ranks of the right face to the left*, and then the *inmoſt file of the right-flank* (all the files of the right-flank being by this facing become ranks) *is the leader of this motion*, martching forth directly to their *left-hands, between the intervales of the ranks of the left-flank, untill that the ſixteenth file, which now is become a rank, hath placed it ſelfe orderly in the two and thirtieth file*, (which is the out-moſt file of the left-flank;) *the fifteenth in the one and thirtieth, the fourteenth in the thirtieth, the thirteenth in the nine and twentieth, and ſo likewiſe of all the reſt*. The places may be perceived by the Figure. The *doubling* is of *number*, and not of *place*. For [b] reducement to both theſe *doublings*, firſt cauſe the *halfe-ranks which laſt doubled*, to face to the *right*, and ſo to *martch into their places*: They that *laſt* took their *places* in the *motion*, are the *firſt* that take their *places* in the *reducement*. The *doubling* of *halfe-ranks* being thus reduced; next for the reducing of the [c] *halfe-files*, (which were *doubled* before, for the accommodating of the *doubling of halfe-ranks*) command the *halfe-files to face-about to the left*, and *to martch forth into their places*: Wherewith I will conclude theſe ſorts of *Doublings*, which require *open Order in rank and file*, and come next to ſhew *intire doublings*, which claime a cloſer diſtance for their true performance. And therefore, conceive them cloſed to their [d] *Order* both in *ranke* and *file*.

[a] *Mixture of Armes at ſome time may be neceſſary.*

[b] *The reducements to both theſe doublings; and firſt to reduce the doubling of the Left-flank.*

[c] *The doubling of halfe-files to the right intire reduced.*

[d] *Order both in rank and file the true diſtance required for intire doublings.*

CHAP. XXI.

The difference between intire and diviſionall Doublings, and of doubling halfe-files intire.

HAving cloſed our Souldiers to their due diſtance, I will next proceed to ſhew *doublings intire*. But me thinks I heare ſome already enquiring, What is meant by *intire doublings*? and therefore, without offence to the curious, give me leave to be ſo curteous to tell them, That all *doublings* are either *intire* or *diviſionall*. *Intire doublings* being theſe, or ſuch like, as when the *files* or *halfe-files*, *ranks* or *halfe-ranks*, (according as the Command ſhall be given) doe *martch forth jointly together, without diviſion or diſſipation, to double the part commanded*. *Particle* and *diviſionall doublings* being ſuch as I have formerly ſhewen: as when the *files* or *halfe-files*, *ranks* or *halfe-ranks*, are *diſ-ranked* and *divided* into more *parts* or *places* than one. This may ſerve for way of diſtinction: I will now ſhew *intire doublings*, as they are in action; and firſt begin with *doubling halfe-files*. The Figure followeth.

What intire Doublings are.

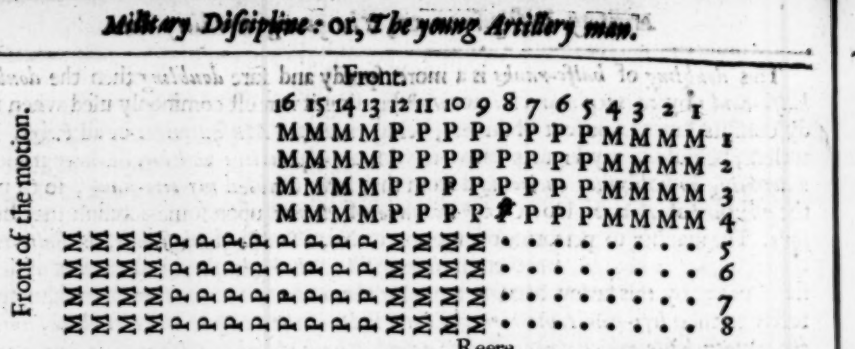
What is meant by Particle and Dividuall Doublings.

The Command is,

Halfe-files, double your front to the left intire.

The Direction is,

Halfe-files, face to the left and Martch.
Face to your Leader.
Martch up and even your front.



Halfe-files, face-about to the right, martch forth into your places.

This *doubling of halfe-files intire*, hath been held a better *doubling* then either the ordinary *doubling* of *ranks*, or the uſuall way of *doubling* by *halfe-files* or *Bringers-up*; ſome of the cauſes are theſe: Firſt, it makes no diſturbance to the other part of the *Battalia*; but that it may either be executed in the time of *motion*, *exerciſe*, or *skirmiſh*. Secondly, it appeares another *ſolid Body*, to the great diſheartening of any enemy. Thirdly, it is very apt for *over-fronting*, being a *doubling* both of *number* and *place*. That it hath been uſed by *Antiquity*, take one example out of *Polybius*; Philopemen *the* Achaian *Generall having ranged his Battalias in forme of* Plagiophalanx, *the* Lacedemonian Machanidas *being to confront him, martcht up directly oppoſite to his right wing, in form of a Herſe (by them called* Orthophalanx) *but being come within convenient diſtance, hee ſuddenly cauſeth the Reere-halfe-files to double the front to the right intire, thereby equallizing the left wing of the* Achaians. The manner or way to performe the Motion is this; *The halfe-files face to the left, and martch till they are quite cleare of that part of the Body which ſtands; then they face to the Leader, and ſo martch up, untill they are become even in rank with thoſe which ſtand upon the right-flank*: and then the Fgure will be perfect. For the reducement, the word of command is, *Halfe-files, face-about to the right, martch forth into your places*: Having faced-about, they martch ſtraight forth, untill they be clear of the *front-halfe-files*; then they *face to the left*, and *martch* ſtraight forth, untill every man hath his right place, and then face right after their Leaders. The *doubling* of *halfe-files to the right intire*, is performed after the ſame manner, onely differing in the hand.

Doubling by halfe-files intire, a ſerviceable doubling.

Polybius lib. 1 p. 63 1. B. as alſo *Ælian* in his Tacticks, the notes of the 32. Chap.

The direction for this doubling of halfe-files.

The word of Command and reducement of this doubling.

CHAP. XXII.

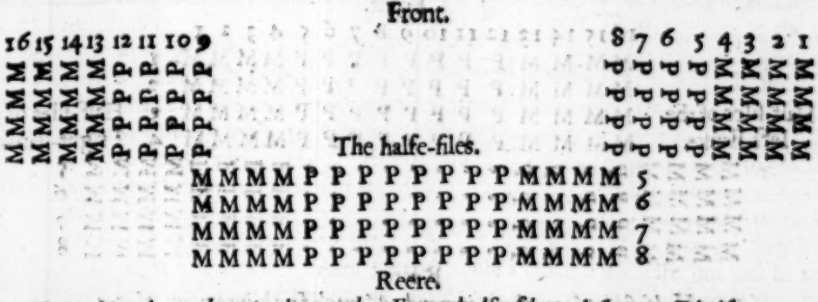
Of doubling the Front inward intire.

DOubling of the *Front inward intire*, hath been a Doubling as uſefull as ancient: notwithſtanding, moſt commonly uſed by great Bodies; as when one *Regiment*, *Diviſion*, or *Maniple*, *moveth forward between two others*, thereby *ſeconding* or *relieving them*: whereby the *Front* of all the *three Diviſions* become *ranged* in an *even line*; but I have only taken upon me to ſhew the motion in a private Company. The Figure whereof followeth, as it is in the execution.

The Command is, *Halfe-files, double your Front inward intire.*

The Direction is, *Front-halfe-files, face to the right and left and martch, Stand, and face to your Leader.*
Reere-halfe-files, martch up and even your front.

Front.



Halfe-files, face-about and martch: Front-halfe-files, cloſe your Diviſion: Face all to your Leader.

It hath been the cuſtome amongſt ancient Souldiers and great Commanders, that in the matter of *Exerciſe* they ſhew ſome things which are moſt apt for a *private Company*; ſome for a *Regiment*, other ſome moſt uſefull for complete *Armies*: ſo in like manner it muſt be the diſcretion of every Reader, (whether hee read for *apprehenſion* or *reprehenſion*) to ſuit and fit each Motion to his true end and purpoſe; and with the wiſe man, *rather read twice, than judge once*: and then perhaps, when the intent of the Author is *perceived*, his opinions may be *received*. Yet, what need I, or any other Apologize ought in the behalfe of this *Form*, or any other ſuch like; ſith they are but the expreſſions of the *various Figures*, which proceed of the words of Command, uſed (almoſt) by every ordinary *Exerciſer of a Foot-Company*? Nevertheleſſe, if *Æſops* long-ear'd beaſt paſſing by ſhould peep into this *Druggiſts ſhop*, and quarrell with the Compounds, I ſhall not ſtudy for a further anſwer, then that, *The excellent and skilfull Phyſician can convert that into an antidote, which the unlearned foole will make his poyſon.* But leſt I be tax'd for digreſſion, the Motion of this Doubling is thus performed: *The halfe-files of the Front* face to the Right and Left, and martch till they have left a diſtance between them ſufficient to receive the *halfe-files* of the *Reere*, then *ſtand*, and *face to their Leader*. That done, the *halfe-files martch up and even their Front*. For the reducement of this Figure, there are (as for all the reſt) divers wayes. But becauſe that it is neceſſary to ſhew one, let the *halfe-files* face-about to the *Reere*, and martch untill they are cleare of the *Front-halfe-files*, then cauſe them to *ſtand*, and *face to their Leader*: that being performed, command the *Front-halfe-files* to *cloſe their diviſions*, and they are rightly reduced as at firſt.

The manner or way how this doubling ought to be performed.

The Reducement.

CHAP. XXIII.

Of Halfe-files doubling the Front by diviſion.

THis Doubling hath beene very well approved of by Count *Mansfield*, Sir *Thomas Kelly*, Captaine *Bingham*, and divers other moderne *Souldiers* of good eſteeme, who preferre theſe ſorts of Doublings before any other; becauſe theſe Doublings may be uſed in time of fight, without diſturbance to the other part of the Battell. The Figure ſtands as it is in motion.

The Command is, *Halfe-files, double your front by diviſion.*

The Direction is, *Halfe-files, face to the right and left, and martch; Stand; Face to your Leader; Martch up and even your front.*

Front.

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

M M M M P P P P P P P P M M M M 1
M M M M P P P P P P P P M M M M 2
Half-files of the left-flanke. M M M M P P P P P P P P M M M M 3 Half-files of the right-flanke.
M M M M P P P P P P P P M M M M 4
M M M M P P P P • • • • • • • • P P P P M M M M 5
M M M M P P P P • • • • • • • • P P P P M M M M 6
M M M M P P P P • • • • • • • • P P P P M M M M 7
M M M M P P P P • • • • • • • • P P P P M M M M 8

Reere.

Half-files, face-about inward. Martch forth into your places

The manner how this doubling ought to be performed. The way to performe this motion, is as followeth: the *half-files* are to *face* to the *right* and *left*, and to martch untill they are cleere of the Reere-part of the *front-diviſion*, then they face to their Leader, and martch up, untill they be come even in rank with the *front*, and ſo ſtand: which perfects this *doubling*. The way to reduce them is as followeth. The *half-files* are to *face-about* to the *Reere*, and to martch forth-right, untill they are cleare of the *front-halfe-files*, and then they are to *face* to the *right* and *left* inward; and ſo to martch and cloſe their *diviſion*: then being *faced* to their Leader, they are *reduced* as at firſt. *The reducement.*

CHAP. XXIV.

Of doubling the Reere by diviſion.

THis next doubling ſhall be a *doubling of the Reere by the front-halfe-files*, which will work the ſame effect to the *Reere*, as the laſt *doubling* by *diviſion* did to the *front*. It may be uſefull in the paſſing of a River, when the enemy chargeth or purſueth in the Reere. *The front diviſion either opening*, as you may perceive by the figure (next following) and ſuffering the *Reere-halfe-files* to paſſe through them, they *maintaining the ſkirmiſh*, untill the other have attained the further banke of the river; or elſe the *Front-halfe-files* being *opened* to the *right* and *left*, and *faced* upon the *Enemy*, *Martch* gallantly up, and *receive* the *Charge*, whileſt the others provide for themſelves. This motion may alſo be uſefull, when you have gained ſome place of advantage, for then by this *doubling of the Reere*, your Battaile will be both *lengthned* and *ſtrengthened*. And ſo by the ſudden bringing of theſe ſupplies into the *Reere*, you may not onely relieve your own, but happily *over-front* your *enemy*. The figure followeth. *The Motion advantagious for the ſtrengthening of the Reere.*

The Command is, *Front-halfe-files, double your Reere by diviſion.*

The Direction is, *Front-halfe-files, Face to the right and left, and martch. When they are clear of the ſtanding part of the Body, face to the reere and move down even with the reere.*

This was the Front before the Motion begun.

M M M M P P P P . . . . . P P P P M M M M 1
M M M M P P P P . . . . . P P P P M M M M 2
M M M M P P P P . . . . . P P P P M M M M 3
M M M M P P P P . . . . . P P P P M M M M 4
M M M M P P P P P P P P P P P P M M M M 5
M M M M P P P P P P P P P P P P M M M M 6
M M M M P P P P P P P P P P P P M M M M 7
M M M M P P P P P P P P P P P P M M M M 8

Reere.

Front-halfe-files, face-about to the right and left inward, Martch forth into your places.

The

The motion may be thus performed; The *Front-halfe-files face* to the *right* and *left*, and *martch* untill they are cleere of the other *half-files* of the *Reer*; Then they *face* to the *Reer*, and *martch* on untill they have attained to be even in *ranke* with them, whom they had command to *double*; which perfects the *doubling*. The way to *reduce* them, is as followeth: If you keepe your place of the firſt Front, then let your *Front-halfe-files face-about*, (according to the former directions) and *Martch untill they are cleer of the reer-half-files*, which ſtand; Then *face* to the *right* and *left inward*, and cloſe their *Diviſions*; So being faced all to their leader, they are reduced. Sundry and divers wayes there are for *reducement*, both of this and moſt other *figures*. Nevertheleſſe I conceive, if I give one *reducement* to each *figure*, it may ſuffice to thoſe that know little; As for ſuch which know better, they know more waies to the wood then one: And ſurely, ſhould I enlarge my ſelfe but half ſo much as I might, (and indeed in ſome things, no more then were needfull) I ſhould then bring my *Volume* into too great a *bulke*; and by the *price* hinder ſome of the profit: But I am willingly ſilent in many things, to the end, that others may thereby be the better encouraged by my weakneſſes, to take notice of their owne *worths*, which may induce them to put pen to paper, and thereby produce ſome *worthy worke*, which may tend to their credits, and their Countries good.

Inſtructions how to reforme this doubling.

The Reducement.

The curious may find many wayes of reducement.

CHAP. XXV.

Of doubling the Reere intire, by the Front-halfe-files.

THis next *doubling* ſhall be a *doubling* of the *reere* to the *right intire*, by the *front-halfe-files*: which I intend not fully to demonſtrate, but to deliver the *figure*, as it will offer it ſelfe in the *Motion*. And I conceive it will not be amiſſe (for the benefit of the *Learner*) to render ſome *formes* in their moving *poſture*, rather then to ſhew them all as they would appeare, the *motion* being perfected; for the way of the *working*, gives a great deale more light to the *Learner*, then to ſhew the thing abſolutely wrought. Neither would I have any thinke, although I ſhew theſe varieties of *doublings*, and acknowledge them to be of ſingular good uſe for the extention of the *length* or *depth* of any Battaile; but that the wiſe conduct and skill of the Commander muſt ſo order them, that the *extending* of the *length*, doe not too much weaken the *depth*; nor that the *ſtrengthening* of the *depth*, bee not too *great* a *weakning* to the *front* or *length* of your Battaile. I might give examples how divers great Commanders, either by good fore-ſight, or ill over-ſight, have gained to *themſelves* and their Countries, *honour* and *victory*, or *loſſe* and *ſlavery*. But others have been very plentifull in examples of this nature, which makes me forbeare: For my intent is not to write a Hiſtory of the actions of others, but rather to ſhew to ſuch as are not ſo skilfull, the *Poſtures*, *Motions*, and ſome few *formes* or *figures* of *Battell*, with their ſeverall *Reducements*, *thereby to indeere ſuch as have generous and publique ſpirits, to endeavour the attainement of this Military skill.* The *figure* of this preſent *Doubling* followeth.

The Command is,

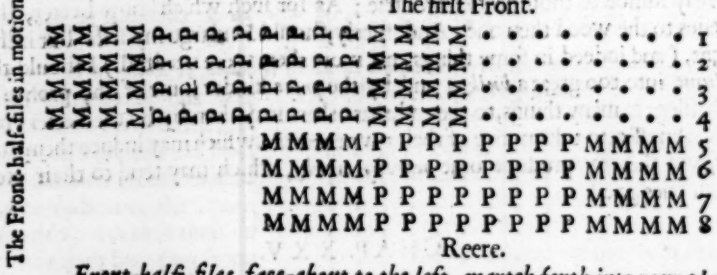
Front-half-files, double your Reere to the Right intire.

The Direction is,

Front-half-files, face to the left and martch: Stand, and face all to the Reere of the Battell. Martch, and rank even with the Reere.

The Front-half-files in motion

The first Front.



Reere.

Front-half-files, face-about to the left, martch forth into your places.

Note the Motion.

The way to performe this Motion (or Doubling) is after this manner: The *Front-half-files* face to the Left, and martch untill they are cleare of the *Reere-half-files*: then face againe to the Left, (which is the *Reere*) and martch out-right untill they *rank even* with the last *rank* of the *Reere-division*; which gives conclusion to the Doubling.

The Reducement.

For the reducement; Let your *Front-half-files* face-about to the Left, and martch right-forth untill they are cleare of the *Reere-half-files*: then face them to the Right, and let them martch into their places. That done, if the *Commander* goe to his *first front*, and face them all to him, they are reduced as at first. To *double* the *Reere* to the *left intire*, may be done after the same manner; onely differing in the hand.

CHAP. XXVI.

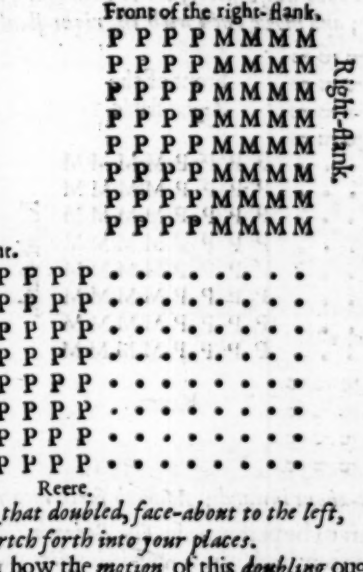
Of doublings by flanks, or half-ranks intire.

HAving shewed the *Particle-Doublings*, and the *doublings* of *Front* and *Reere intire*, and by *division*; I will next shew the *doublings* of *flanks* after the same manner. And will first begin with a *doubling* of the *left-flank*, by advancing the *right-flank*, and placing it before the leaders of the *left-flank*: which is a *doubling* both of Number and Place, and may serve to singular good use, for the *strengthening* of any *flank* where it may be needfull; for it makes the *Battaile defensible* on every part. The Figure, as it is in motion, followeth.

A doubling of Number and Place.

The

The Command is, *Double your left-flank intire, advancing.*
The Direction is, *Right-flank, March, Stand, Face to the left, and march even with the left-flank; Face all to your Leader.*



Right-flank that doubled, face-about to the left, march forth into your places.

If you would have your *Musquettiers* to *double even* with the *Musquettiers* of the *contrary flank*, then it is no more but thus: Cause the *halfe-ranks* of the *right-flank* to *march* forth-right, (as you may perceive by the Figure) untill the *Reere-rank* of the *right-flank* be *advanced* about *three foot* before the *front* of the *left-flank*; then cause that *flank* so *advanced*, to *counter-march* their *Ranks* to the *right*; and then all your *Musquettiers* will be together on the *left-flank*: the *Pikes* likewise by themselves on the *right-flank*. If this be performed, then the *Reducement* must be answerable after the same manner.

This Reducement conceives the whole Body faced to the left-flank. If they face to the proper front, then, Right-flank that doubled, face to the right, march forth into your places. Or, Halfe-files that now are, double your front to the left intire. Either of these will doe it.

For instruction how the *motion* of this *doubling* ought to be performed, (according to the words of Command and Direction formerly given) is as followeth. The *left-flank* (or *halfe-ranks* of the *left*) stands fast: the *right-flank*, both *Musquettiers* and *Pikes*, march forth-right, untill the *Reere* of the *right-flank* be advanced before the *Front* of the *left-flank*; as aforesaid. Then face them to the *left*, and cause them to march untill the *Pikes* are *even* in *rank* with the *Musquettiers*; then face to the *Leader*, and the *doubling* is perfect.

For the *Reducement*, let the *right-flank* that *doubled face to the right*, and *march* untill they are cleare of the *left-flank* (or standing part of the Battalia:) Then cause them to *face* againe to the *right*, and *march* straight down into their places: Lastly, being *faced* to the first *front*, they are rightly *reduced*. The *right-flank* may also face-about, and *double* the *left-flank* towards the *Reere*; both (for manner of Figure) work one and the same effect, differing onely in circumstance; the one being a *doubling advancing forwards before the Front*, the other a *doubling of the depth towards the Reere*. The *left-flank* may *double* the *right-flank intire*, either to the *Front* or *Reere*; but by this that hath already been shewen the others may be understood: wherefore I spare the Figures.

The Reducement.

CHAP. XXVII.

Of doubling Flanks by Division.

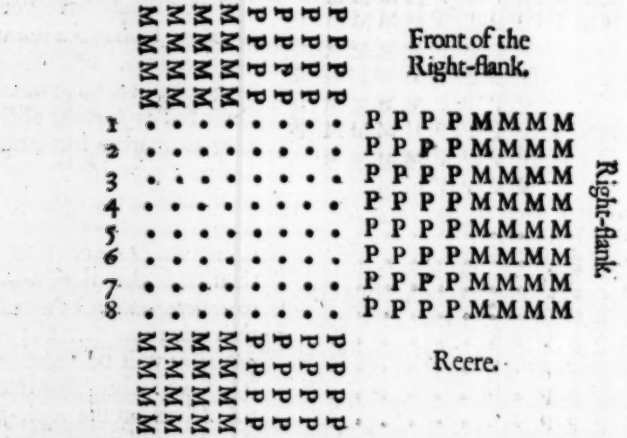
THis next *doubling* is a *doubling* of *Flanks by division*: and without question, a serviceable *doubling*, and very usefull for some occasions. For, if you note the Figure, and conceive rightly what it will produce, (the *Motion* being ended) it makes a strong form of Battaile, to give fire three severall wayes at once. The Figure followeth.

The Command is,

Left-flanke, double your right-flank by diviſion.

The Direction is,

Halfe-files of the left-flank, face to the Reere: Front and Reere-halfe-ranks, move cleare of the Body, and ſtand: Front-halfe-files, face to the right; and Reere-halfe-files, to the left; and move even with the right-flank.



Halfe-ranks that doubled, face-about inward; Martch forth into your places.

Note the inſtruction.

The *motion* of this *doubling* is thus to be performed: The *Reere-halfe-files* of the *left-flank* face-about to the *right*, and then both the *Front-halfe-files* and *Reer-halfe-files* martch forth-right, untill they are cleare of that part of the *Body* that *ſtands*; then each *diviſion* faceth that way which they are to *double*, (which the *Front-halfe-files* muſt doe to the *right*, the *Reer-halfe-files* to the *left*;) and ſo martch forth-right, untill the *Doubling* be performed. For the *Reducement*, you are to conceive, it may be diverſly performed: If the Leader be at the *right-flank*, (which is the part that was *doubled*) then the *Reducement* is as followeth: The *halfe-ranks* that *doubled*, face-about inward, and martch forth-right, untill they are cleare of the *right-flanke*, which *ſtands*; then the *Front-halfe-files* face to the *left*, the *Reer-halfe-files* to the *right*, and then *cloſe* their *diviſion*: the Leader going to his firſt *front*, and facing the whole *Body* to him, they are *reduced* as at firſt. If that the *right-flank* would *double* the *left-flank* by *diviſion*, the matter is the ſame; differing onely in the hand.

The reducement.

CHAP. XXVIII.

Of doubling Ranks intire.

Note the difference of dignity in this doubling.

Differing from doubling by halfe-files in diſtance.

Doubling of ranks to the right intire, is a doubling both of Number and Place; and in ſome ſort worketh the ſame effect as the doubling of halfe-files to the right intire: But differeth firſt in regard of the *parties*, which are the *Doublers*; and ſecondly, in the *diſtance* left after the *Doubling*. For the firſt, which is matter of *dignity*, the *fifth* and *firſt* in honour are ranked together in the *Front*, the *ſecond* and *ſixth* in dignity make the laſt *Ranke* in the *Reere*: So that the *Front* precedes the *Reere* $\frac{1}{4}$ in worth; whereas in the *doubling* by *halfe-files*, the *Front* exceeded the *Reere* by $\frac{1}{4}$. Secondly, it differeth for the *diſtance*, by leaving *Open Order*, at the leaſt, between all the *ranks*. For further ſatisfaction, obſerve this Figure following.

The

The Command is, *Double your Ranks to the right entire.*
The Direction is, *Even ranks face to the right, and March: face to your Leader; and ranke even with the odde.*

Front.

Reere.

Ranks that doubled, face to the left. Martch forth into your places.

The *motion* of this *doubling*, ought to be performed, as followeth; namely, if the *doubling* be to the *right*, as is above expreſſed by this figure: Every *even ranke*, *faceth to the right*. The *right-hand-man* of each *ranke*, becomming the *leader* of his *ranke file-wiſe*: leading them forth, and in their *martch* or moving forwards, a little bending to the *left*: that when the *left-hand-men* of each Rank, (which are the *bringers-up* of the *motion*) are cleer of the ſtanding part of the *body*, by onely *facing* to the *front*, they may ſtand even in *ranke* with the reſt of the *Company*. For *reducement* of this *doubling*, it may be as followeth. Command the ranks that *doubled*, to *face* to the *left*, and martch forth-right into their places. Or for variety, command *halfe-ranks* of the *right*, to *face* to the *left*, and *double* the *left-ſtank*. Both which, as the *Company* now ſtand, worke one and the ſame effect. The *left-hand-men* of *each ranke*, being the *leaders* of the *motion* in the *reducement*. To *double ranks* to the *left intire*, is to be done after the ſame manner; onely obſerving the *difference* of the *hand*. This *doubling* may alſo be done by *diviſion*. But I ſpare the Figures.

Inſtructions for the Doubling.

Note that the left-hand-men, are the Leaders of the motion, in the reducement.

CHAP. XXIX.

Of doubling Files intire, advancing.

Doubling of *Files* to the *right intire*, advancing, is (alſo) a *doubling* both of *number* and *place*: for it increaſeth the *depth*, to double their former *proportion* of number: as from *eight*, to *ſixteene*; from *ten* to *twenty*; &c.

It alſo gaineth ſo much more *ground* before the *Front*, as formerly the *Battell* did containe: by *transferring* the *even Files* of the *body*, into the *ground*, before the *Front* of the *odde Files*: but this *doubling diminiſheth* the number of the *length* of your *Battell*, although it preſerves their *place*. I ſpare to ſpeake further of it, onely thus. Let the antiquity of this *doubling* plead for its excellency, and if that may hold for a rule, then this may be ranked amongſt the beſt. For further directions, obſerve the following Figure.

The Command is, *Double your Files to the right intire, advancing.*
The Direction is, *Even Files advance forwards, and place your ſelves before the odde files to the right.*

Front.

	16	14	12	10	8	6	4	2	
	M	M	P	P	P	P	M	M	
	M	M	P	P	P	P	M	M	
	M	M	P	P	P	P	M	M	
	M	M	P	P	P	P	M	M	
	M	M	P	P	P	P	M	M	
	M	M	P	P	P	P	M	M	
	M	M	P	P	P	P	M	M	
	M	M	P	P	P	P	M	M	
Left Flank.	16 M	14 M	12 P	10 P	8 P	6 P	4 M	2 M	1 Right Flanke.
	• M	• M	• P	• P	• P	• P	• M	• M	2
	• M	• M	• P	• P	• P	• P	• M	• M	3
	• M	• M	• P	• P	• P	• P	• M	• M	4
	• M	• M	• P	• P	• P	• P	• M	• M	5
	• M	• M	• P	• P	• P	• P	• M	• M	6
	• M	• M	• P	• P	• P	• P	• M	• M	7
	• M	• M	• P	• P	• P	• P	• M	• M	8

Reere.

Files that doubled, face-about to the left. March forth into your places.

Instructions to performe the doubling.

The reducement.

The *motion* of this *doubling* ought to be performed after this manner. The *odde files* are to *ſtand*, beginning your account from the *outmoſt file* to the *hand* named. The *Muſkettiers* and *Pikes* of the *even files*, are to *advance* their *Armes*, and follow their *file-leaders*, every *file-leader* leading his *file* forth-right, before his next *file* to the right, untill the *bringers-up* of the *even files*, are orderly placed, before the *leaders* of the *odde files*: as you may perceive by the *Figure*. For *reducement*; let the *Files* that *doubled, face-about* to the *left*; the *bringers-up* of each *file* leading them forth-right, downe the *Intervals*, which are on the *left-hand*, untill they are come *even* with the *Reere*: and then *ſtand*, and *face* to their *leader*, and they are reduced, as at firſt. The *doubling* of *Files* to the *left intire*, advancing, is after the ſame manner: it onely differeth in the *hand*: therefore I ſpare the *figure*. They that love to be curious, may likewiſe *double files*, by *diviſion, advancing*.

CHAP. XXX.

Of Files doubling their depth.

THis next *doubling* is a *doubling to the depth of the right intire*: and is likewiſe a *doubling of Files*, as the other laſt ſhewn in the precedent Chapter; Being alike both for *number* and *place*: notwithſtanding it *differeth* from the *other*, both in *manner* of executing, and in ſome ſort of the *matter* executed. For whereas the other *doubling* by *advancing* of *files*, did *transferre* all the *even files* into the ground before the Front: Contrariwiſe, this *doubling* doth *transferre* them into the ground next behind the *Reere*. And as in the *other doubling*, you may perceive halfe the *file-leaders* to remaine in the *front*; the other halfe to be *halfe-file-leaders*: This *doubling* hath halfe the *file-leaders* in the *front*, the other halfe being the laſt *ranke* of the *Reer*: * thoſe which were the former *bringers-up* being become the two *innermoſt* or *middlemoſt rankes*. The *Figure* followeth, being demonſtrated as the *Body ſtands*: the *Motion* being ended.

* By this doubling the bringers up become the two middle-moſt rankes.

The

The Command is, *Files, double your depth to the right intire, every man falling behind his Bringer-up.*

The Direction is, *Even files from the right, face to the Reere, and every man place himſelfe after his Bringer-up.*

Front.

	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
	•	M	•	M	•	P	•	P	•	P	•	P	•	M	•	M	1
	•	M	•	M	•	P	•	P	•	P	•	P	•	M	•	M	2
	•	M	•	M	•	P	•	P	•	P	•	P	•	M	•	M	3
	•	M	•	M	•	P	•	P	•	P	•	P	•	M	•	M	4
	•	M	•	M	•	P	•	P	•	P	•	P	•	M	•	M	5
	•	M	•	M	•	P	•	P	•	P	•	P	•	M	•	M	6
Left-Flank.	•	M	•	M	•	P	•	P	•	P	•	P	•	M	•	M	7 Right-Flank.
	•	M	•	M	•	P	•	P	•	P	•	P	•	M	•	M	8
		M		M		P		P		P		P		M		M	8
		M		M		P		P		P		P		M		M	7
		M		M		P		P		P		P		M		M	6
		M		M		P		P		P		P		M		M	5
		M		M		P		P		P		P		M		M	4
		M		M		P		P		P		P		M		M	3
		M		M		P		P		P		P		M		M	2
		M		M		P		P		P		P		M		M	1

Reere.

Files, as you were: Or, *Bringers-up, double your Ranks forward to the left.*

The manner of the *motion* for this *doubling*, is as followeth: The Command being given, *Files, double your depth to the right intire, every man falling behind his Bringer-up*: then the *even files*, accounting from the *hand* named, immediately *face-about* to the *right*, and the *Bringers-up* of each of the *even files* turne behind the *Bringers-up* of the *odde files*, that *ſtand*; and ſo every man, as he cometh down to the *Reere*, turneth to the *left* behind him that *martcheth* downe the next before him, untill thoſe that were the *Leaders* to the *even files* are become the *Bringers-up* to thoſe which were the *odde files*. The *Reducement* is as followeth: *Bringers-up that now are, double your ranks forward to the left*. Which being performed, they are as at the firſt. If you would be inſtructed in the manner, turne back and ſee it, where the *Bringers-up double* their *ranks* forward into the *Front*: It is the fourteenth Chapter.

The manner or way how this doubling ought to be performed.

The Reducement.

I have willingly paſt over another *doubling* of the *depth*, becauſe it is much after the manner of that which is done by *advancing file upon file*; which is the *doubling* of the laſt Chapter. It differeth onely thus: In the laſt Figure, the *even files martched* forth, placing themſelves before the *odde files*: and in this which I have omitted, the *even files* are to *face-about*, and *martch* forth-right towards the *Reere*, untill the *Fole-Leaders* of the *even files* have placed themſelves juſt behind the *Bringers-up* of the *odde files*; and then every man to *face* to his *Leader*. Some have a *doubling* of the *depth* by *Counter-martch*; which I conceive ſcarce worth perning, yet willing to leave every man to his owne liking; and as I doe nothing in it, ſo I will ſay nothing of it. There are others that have written concerning *doublings* of *place*; nevertheleſſe, becauſe they are nothing but the *opening* of *ranks* and *files*, whereby the *length* or *depth* of your *Battell* is *extended*, and ſo *doubled* in *place*, and not in *number*, I forbeare to write further of them; deſiring not to treat of ſuch things as are more *curious* than *neceſſary*.

Some doublings omitted.

Doubling the depth by Counter-martch.

Doubling of place.

CHAP. XXXI.

Of Converſion and Inverſion, with their words of Command, and Reducements.

ACcording to my promiſe, I will now ſhew the difference between *Inverſion* and *Converſion*; whoſe very names are ſo intricate and troubleſome (to many) that they are more puzled with the words then the work. Some are of opinion, that they are both one; differing in *letter*, not in *matter*. Others would have a difference, if they could tell how, or where. But generally they are ſo chopt and changed one for the other, that the *Souldier* cannot in truth tell which is either. But that you may not be deceived, take this for a *rule*, that *Inverſion doth alwayes produce file* or *files*; and *Converſion*, *rank* or *ranks*. *Inverſion* conſiſts of *files filing*, or of *ranks filing*. *Converſion*, of *ranks ranking* to the *right* or *left*: or by *increaſe* of *files*, *ranking* by *even* or *uneven parts*: and of *ranks wheeling* to the *right* or *left*. I ſhall ſpeak further of them in their ſeverall places. But by the way you are to obſerve, that *Inverſion* and *Converſion* require larger *diſtance* of *ground* than any other *motions*; which muſt be the *Officers* care to open the *ranks* or *files*, to ſuch *diſtances* as ſhall be neceſſary to contain the *ranks* or *files* ſo to be *Inverted* or *Converted*; whether it be *double-diſtance*, or twice *double-diſtance*, or any other leſſer or larger quantity of ground. The words of *Command*, with their ſeverall *Reducements*, are as followeth.

Inverſion.

Inverſion.

Files, file to the { Right. / Left. } — *File-leaders, lead up your files as you were.* — Ranks, file to the { Right. / Left. / Right & Left. } — *Files, rank as you were.*

Files, file to the Right and Left by diviſion.

Converſion.

Converſion.

Ranks, rank { 3. 5. 7. or 9. to the Right. / 4. 6. 8. or 10. to the Left. / By increaſe 2. 4. 6. 8, &c. to the Right. / By increaſe 1. 3. 5. 7, &c. to the Left. / Intire to the Right into the Front. / Intire to the Left into the Front. / By diviſion into the Front. } — *Ranks, rank as you were.*

Ranks, wheele to the { Right. / Left. / Right & Left. } — *For reducement*; *Face about to the* { Right / Left / Right & Left } — *And wheel into your places. Then face to your Leader.*

Files, rank { 3. 5. 7. or 9. to the Right. / 4. 6. 8. or 10. to the Left. / By increaſe (to the Right) 1. 3. 5. 7, &c. / By increaſe (to the Left) 2. 4. 6. 8, &c. / To the Right / To the Left } into the Front. — *Ranks, file as you were.*

To avoyd the words of *Inverſion* and *Converſion*, I have delivered the directions without naming either of them: onely I have expreſt the *ſix* firſt words of *Command* to be *Inverſion*, and the laſt *ſixteen* to be *Converſion*. For I conceive it altogether unneceſſary to adde to every word of *Command*, *Inverſion*, or *Converſion*; for by ſo doing, the unlearned and ignorant *Souldier* will be ſo confuſed with the ſtrangeneſſe of the word, that hee will ſcarce by any meanes be made capable of the *matter*. For mine own part, I have ever held this opinion, that the eaſieſt *expreſſions* are ever to be preferred, in the way of *inſtruction*, to *young Souldiers*. I might have much inlarged my ſelfe, in the words of *direction*, concerning

cerning this Subject, and have written concerning *ranks* and *files*, *ranking* by *decreaſe*; but theſe already expreſt may ſuffice to demonſtrate to any the grounds of all: and if any will be curious, by the practice of theſe, the reſt will be found. I alſo at firſt intended to have drawn a Figure, the more lively to have expreſt thereby each ſeverall word of *Command*; but, upon better conſideration, I perceived that ſome of them would require much roome, and not be ſo apt to print, without their Figures were cut, and were facile enough to the meaneſt capacity, by their words of *Command* and *Direction*; therefore, I conceive, the paines and coſt may be ſpared, delivering the Figures of ſome few of them, that are *moſt neceſſary*, and for the reſt, expreſſe by word what they will produce in Figure.

CHAP. XXXII.

Of Files filing in ſequence.

The Command is, *Files, file to the right.*

TO performe this *word* of *Command*, The *right-hand-file marcheth away ſingle*, the *ſecond file* from the *right* falleth into the *reere* of the *firſt*, the *third* behind the *ſecond*, the *fourth* behind the *third*; and ſo conſequently all the reſt of the *files* fall into the *reere* of their next *right-hand-files*, untill all the whole *Company* become one *file*. It may be uſefull to paſſe ſome narrow bridge, or thicket, or elſe-where, where but one at once can paſſe; the *Commander* being willing to preſerve his *files* intire and whole. The way for the *reducement* may be after this manner: The place being convenient, every *file-leader* is to *lead up* his *file* to the *left* of him that *martcheth* before him, untill all the *file-leaders* are *even* in *rank* together; their *files* orderly following them. The *word* for the *reducement* is, *File-leaders, lead up your files as you were.* For *files* to *file* on in *ſequence* to the *left*, may be performed after the ſame manner; it onely differeth in the *hand*, but works the ſame *effect*: onely, the *right-hand-file-leader* led the other, and the *left-hand-file* fell laſt of all into the *Reere*; this, contrariwiſe, is led forth by the *left-hand-file*, and the *right-hand-file* is the laſt that taketh place in the *Reere* of the *extended file*. *Inverſion.*

Files, file to the right and left by Diviſion.

Files filing by *diviſion*, is wrought after the ſame manner; but differeth in this, *That the right-hand-file of the Company, and the left-hand-file of the ſame, begin to lead forth at one and the ſame time, in their ſeverall places: The files of the right-flank falling file-wiſe behind the right-hand-file; the files of the left-flank falling in like manner behind the left-hand-file.* So that if the *Body* be *flanks* with *Muſquettiers*, then this *filing* by *diviſion* bringeth all the *Muſquettiers* into the *Front-Diviſion*, and the *Pikes* in the *Reere* of them. If there be an *odde file*, it moſt commonly falleth to the *right*. The *word* for *reducement* is, *File-leaders, lead up your files as you were.* This ſort of *Inverſion* is called, *Filing in ſequence.* I will now ſhew another ſort of *Inverſion*, which is by *Ranks filing*: The which I will demonſtrate unto you by two Figures, which will be ſufficient to inſtruct the deſirous.

CHAP. XXXIII.

Of inverting Ranks; or, *Ranks filing.*

THis following Figure of *Inverſion*, is of *Ranks filing to the right*; *where all the Ranks are to be inverted to the out-moſt file to the right*: For the doing whereof, let all your *files* be *cloſed* to their *Order*, or *Cloſe-Order*, as ſhall be thought moſt neceſſary; the *ranks opened*, either *forward* or *backward*, to *double-diſtance*, or twice *double-diſtance*, (more or leſſe) as the *Commander* ſhall ſee moſt convenient, according to his number. Having *cloſed* your *files*, and *opened* your *ranks* unto their due *diſtance*, then let every *rank* move after

his

his *right-hand-man*, untill every *ranke* ſtand right in *File*, after the *right-hand-leader* of his rank. In this Figure I have only *opened* the *foure firſt rankes* to their diſtance, and *inverted* but *two* of the *foure*. By which it may eaſily be perceived, both the *manner* of the *work*, and the *matter* which is to be *wrought*. But if the *Commander* will performe it upon a *March*; then they ſhall not need to *open* to any *diſtance*, but to take their *diſtance* in the *execution*; which is the eaſieſt way, and will be thus performed. The *right-hand-man* of the *firſt rank*, *marcheth* forth-right; all his *ranke facing* to the *right*, and *marching file-wiſe* after him. The *right-hand-man* of the ſecond *rank* falling immediately after the *left-hand-man* of the firſt *ranke*, all his *ranke* in like manner following of him. The *right-hand-man* of the third *rank*, after the *left-hand-man* of the ſecond; his *ranke* likewiſe following of him. And ſo for all the reſt, untill they are all become one *file*.

This kind of Inverſion beſt performed marching.

Ranks file to the right.

Front.

m m P P P P m m 3

M M P P P P M M 4

M M P P P P M M 5
M M P P P P M M 6
M M P P P P M M 7
M M P P P P M M 8

Reere.

Files, ranke as you were.

This *Rankes filing*, is ſooner performed, and *reduced*, then *files filing*: and in the *reducement* will preſently be ready to make reſiſtance, againſt any oppoſition in the *front*. Whetas if *files file*, it will be a great while before the *file-leaders* will be able to make *good* the *front*: the manner of the *Reducement* of this *Figure*, is as followeth. If they were *eight* men before in *ranke*, then the firſt eight men, *ranke* to the *left*, into the *front*. The next *eight* men *ranke* next after them, which makes the ſecond *ranke*. The third *eight* men, *ranking* to the *left*, make the third *ranke*. And ſo forward for the reſt, untill they are *reduced*, as at the firſt. But it may be, that ſome will object, that in this *Figure* there is *mixture* of *Armes*; which if they will avoid, they may either *march* forwards their *Musquetiers* of each *diviſion*, and *cloſe* them before the *Pikes*; and *invert* them firſt. Or they may *march* forwards their *Pikes* firſt, and leave their *Musquetiers* to come in the *Reere*. Or if they pleaſe, they may upon a deepe *march*, firſt *invert* the *front-diviſion* of *Musquetiers*, then their *Pikes*, and laſt the *reere-diviſion* of *Musquetiers*; which way ſoever it be done, the word for *Reducement* will be, *Files, Ranke as you were.*

The reducement.

Mixture of Armes hath many times proved advantagious.

By this deep March is to be underſtood a right induction according to Ælian.

Rankes, Files to the left.

Rankes, file to the Left, is performed after the ſame manner. It *differeth* from this laſt done, but onely in the *hand*. And whereas the *right-hand-file-leader*, was the *leader* of the laſt, this would be led by the *left-hand-file-leader*: The *left-hand-leader* of each *ranke*, leading forth his *Ranke-file-wiſe* as before it was performed, but to the *contrary hand*; I ſpare the *Figure*.

CHAP.

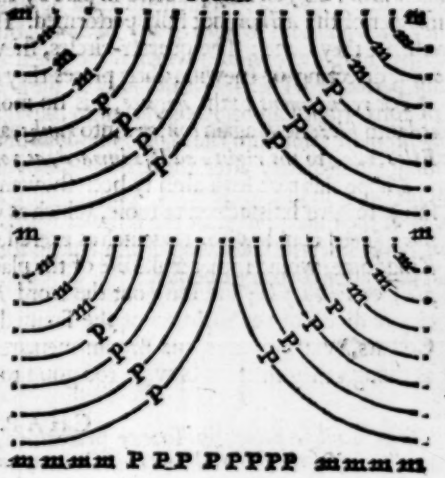
CHAP. XXXIV.

Of Ranks filing by diviſion; and how uſefull.

THis next *Figure* of *Inverſion* is, of *Ranks filing by diviſion*; and is a *doubling of the depth, by unequall proportion*: For whereas in moſt of all other *doublings* the number of the Length or Depth is augmented but to double their former proportion of number, this *doubling* of *Inverſion* makes their Depth ſo many times more in number as there are *Files* to *double*; or halfe ſo many times, if it be done by *Diviſion*; as in the next following *Figure*. It hath been of ancient uſe amongſt the *Grecians*, and in theſe our latter times it hath been held of ſpeciall uſe, to avoid the ſhot of the great Ordnance, when of neceſſity wee are to *march* againſt any *Battery*. It hath alſo been held good, to prevent the imminent danger of ſome great *ſhowre* of *ſmall ſhot*, likely to be poured out upon the *Front* of your *Battalia*. It may alſo ſerve for a *guard*, honourable *paſſage*, large *intervalle*, *ſtreet*, or *gallery* (as ſome call it) for any great *Perſonage* or *Commander* to paſſe through. It is alſo of common uſe for *lodging* of the *Colours* or *Enſigne*: And many other ſuch like.

Ranks, file to the right and left by diviſion.

Front.



Tactick. Ælian. Chap. 30. pag. 6. line the laſt.

M M M M P P P P P P P P M M M M

M M M M P P P P P P P P M M M M
M M M M P P P P P P P P M M M M
M M M M P P P P P P P P M M M M
M M M M P P P P P P P P M M M M

Reere.

Files, ranke as you were.

For inſtruction how to performe this *motion*, It is the ſame with the laſt *Figure*; differing onely in this, that as in the other *Figure* all the whole *ranks* turned to the *right*, behind their *right-hand-men*; in this *motion*, the *left-flanke*, (or *halfe-rank* to the *left*) fall into the out-moſt *file* to the *left*; the *halfe-ranks* to the *right*, behind their ſeverall *right-hand-men*: as you may perceive in part by the *Figure*. I have ſhewen the *Figure*, in the manner of the *action*, not fully performed. The *pricks rank-wiſe*, denoting the places from whence they came: The quarter-circles, ſhewing the way of the *motion*: the *pricks file-wiſe*, directing or ſhewing their places they are going to.

Reducement by Converſion.

For *reducement* to the *Figure*, it is no more than this: The *ranks* which before *inverted* into *files*, now again *convert* into *ranks*, as they were. The *word* of Command for it, is, *Files, rank to the right and left inward, as you were.*

I hope this that hath already been ſhewen, will be ſufficient (at leaſt in ſome ſmall meaſure) to give ſatisfaction to thoſe, which as yet have not known what is meant by *Inverſion*: Yet I could wiſh, that ſuch as exerciſe the Companies of the Trained-Bands of this Kingdome, would rather make uſe of the plainer *word* of *demonſtration*; which is, *Ranks, file*; or *Files, file*; and leave out the word *Inverſion*, as a word not ſutable with the capacity of divers of our Souldiers of the Trained-Bands; eſpecially of this City, where Porters, Colliers, Water-bearers, and Broom-men, are thruſt into the rooms of men of better quality, as though they themſelves were too good to doe the King and their Country ſervice.

Military Diſcipline too much ſlighted by middle ſort of Citizens.

CHAP. XXXV.

Of the ſeverall parts of Converſion: and how they are to be underſtood.

THe next branch of *Diſcipline*, which I offer to your view, ſhall be of *Converſion*; and of its ſeverall parts: Wherein, if there be any that think ſoe tedious, let them turne it over, and ſettle on ſome other part, which may be to them more delectable; whileſt I, in the meane time, ſhall endeavour to give content to all: neitherſtuffing out my book with *needleſſe diſcourſes*, nor yet too much abbreviating the matter, whereby to render it too obſcure unto the commoneſt capacity. Wherefore take their parts as they hereafter follow.

Converſion conſiſts of theſe parts, *viz.* Of

- Ranks ranking
  - *Inequall parts.* 1
  - *In unequall parts.* 2
  - *Intire into the Front.* 3
  - *By diviſion into the Front.* 4
  - *By wheeling to the Flanks.* 5
- Files ranking
  - *By equall parts.* 6
  - *By unequall parts.* 7
  - *Intire into the Front.* 8

Ranking in equall parts. This manner uſed both by Greeks and Romans; and is the beſt for a ſtrait.

First, of *Ranks ranking* in *even* or *equall parts*: Which is to be underſtood, *when there are twelve, or twenty, (more or leſſe) martching abreſt, and the Commander (either for the narrowneſſe of a paſſage, or for ſome other intent) cauſeth his ranks to rank three, or ſix abreſt, or five, ten, or any other number, either according to the place, or occaſion; every rank holding equality of number.*

Ranking in unequall parts.

Secondly, *Ranks* then *rank* by *unequall parts*, when they *rank by increaſe*, or *decreaſe*: As when the firſt *rank* ſhall be *three*, the next *five*, then *ſeven*, *nine*, &c. which is commonly uſed, for the making of *Diamond* and *Triangular Figures*.

Rank ranking intire into the Front.

Thirdly, *Ranks* then *rank intire into the Front*, when the *firſt rank ſtands*, the *ſecond rank placeth it ſelfe on the right or left of the firſt*, the *third by the ſecond*, the *fourth by the*

the third, and ſo forward for all the reſt, untill *all the ranks*, (either to the *right* or *left*) according to direction, *are become one Ranke in the front.*

Ranks ranking by diviſion into the Front.

Fourthly, *ranks* then *rank by diviſion into the front*, when the *ſecond Ranke*, and all the reſt of the ranks behind, open to the *right* and *left*: the one part going to the *right*, the other to the *left*; *ranking even* with the *firſt*, as before, and all together making one *Rank.*

Ranks ranking to the flanks by wheeling.

Fifthly, *Ranks* then *ranke* to the *flanke*, or *flanks*; when either the *right-hand-man* of *each ranke*, *or the left-hand-man* (or both together) *are as it were the Hindge of the motion, the reſt of each rank wheeling about them, to the right or left*, or each hand by diviſion, *untill that every ranke be brought into the diſtance which was before the Ranke; betweene the right-hand-man of the ranke next before, and the right-hand-man of the ſame ranke you ſtand in.* If it be to the *left*, then they *wheele* into the *diſtance* betweene the *left-hand-leaders* of each Ranke. If it be by *diviſion*, then *halfe* the ranke wheeleth to the *right*: the other *halfe* to the *left*, and produceth two Ranks.

Files ranking equall parts.

Sixthly, *Files* then *ranke by equall parts*, when they ranke three, foure, or five abreſt, (more or leſſe) ſtill keeping the number of men in ranke, of due proportion. If you ranke three abreſt (either to the *right* or *left*) and your *File* be but eight deep, then the firſt fixe men make two ranks; the third rank muſt be made up by the leader of the ſecond *file*. And ſo for all the reſt. If you rank foure, and the *files* be eight *deepe*, then every *file* makes two ranks. If you rank five, the *files* being eight *deepe*, then the firſt five men make a rank; and the firſt two men of the ſecond *file* from the hand named, make up the *ſecond* ranke. Five of the other ſixe, make up the *third* ranke. And ſo forward for the reſt. If the *depth* of the *file* were ten men, then it would make two *even* ranks.

Files ranking by unequall parts.

Seventhly, *Files* then rank by unequall parts, when they either rank by progreſſionall increaſe or by decreaſe: As when every ranke exceeds the rank before it, by two, three, or foure, be it more or leſſe. Or elſe that each rank decreaſeth, after the ſame manner.

Files ranking intire into the Front.

Eighthly, *Files* then rank intire into the *front*; when there is *ſo much diſtance betweene file and file, as will containe each file, rank-wiſe: Every man in the file martching forward to the right or left, as ſhall be commanded, untill he ſtand even in rank with the leader of his file, which brings the Body into one ranke.*

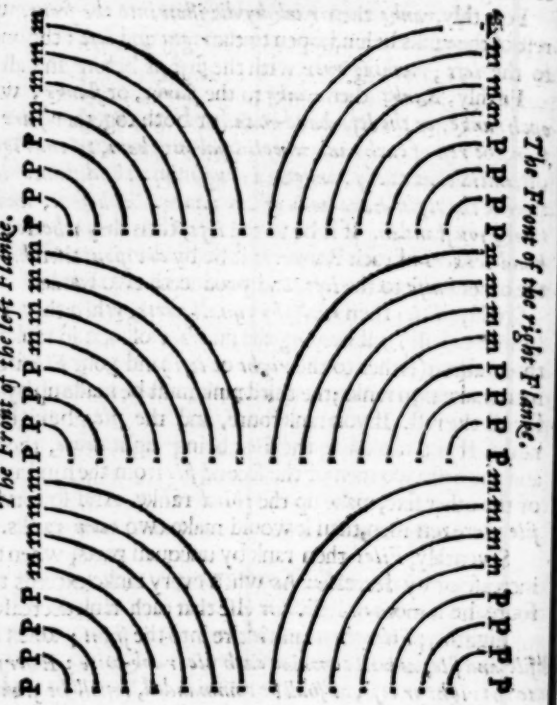
CHAP. XXXVI.

Of Ranks wheeling by converſion.

IF I would ſtrive to be *curious*, I ſhould need no other *ſubject* to lengthen my diſcourſe, but onely this of *Inverſion* and *Converſion*; which of it ſelfe would yeeld matter ſufficient to make a booke. But I have taken a larger taske: And therefore like the Artiſts in *Geography*, who ſometimes by a *ſpot* preſents a *Towne*, and by a *wrinckled line* a large River; ſo muſt I crave of the favourable Reader, that in this ſmall Treatiſe of *Diſcipline* he will not expect that I ſhould inlarge my ſelfe ſo amply, as I might upon every part. For then my booke would grow beyond his bounds, and I beyond my promiſe. But leſt I be taxed for digreſſion, this that hath already beene ſhewen may ſuffice for *converſion*. But becauſe it may be expected, that I ſhould ſhew *converſion* in *Figure*, as well as the other *Motions*, therefore to ſatisfie ſuch, I ſhall demonſtrate two *Figures* unto them, which may ſerve for all the reſt. The one ſhall be of ranks *wheeling by converſion*: the other of *files ranke-ing foure to the left*. The word of *Command* for the firſt ſtands placed right over the *Figure.*

This *figure* of *Converſion* is of *ranks wheeling to the right and left:* or *ranks ranking to each flank by wheeling.* It differeth from *ranks filing*, both in manner and matter. In the manner thus, Whereas in *ranks filing* to the right and left, the *right* and *left-hand-file-leaders* preſerve and continue their places; and with that, their honours: In this *wheeling by converſion* to the *right* and *left*, contrariwiſe the *innermoſt file-leaders* become the *outmoſt* men in that part where the *front* ſtood; the other *file-leaders ranking even* within them. Some men have called this, *Ranks filing by Converſion, to the right and left*, but corruptly. For *converſion* alwaies produceth *ranks*, as I formerly ſaid: and *Inverſion, files*. But their miſtake groweth from this, that when *Ranks wheel to the right*, or *right* and *left*, then (ſay they) they by *wheeling* become *file*, or *files*, which is a palpable miſtake. For when we have any *command* for *wheeling*, it is a *maxime* for us to *wheele our aſpects unto the hand or part named*. By which doing, we either become rank or ranks; and not files, as ſome have ſought formerly to maintaine. One uſe, among many, for this *motion* is. It is the ſpeedieſt way for a great *Body* (if they have their due diſtance) to *give fire to one, or both flanks*, that as yet I know of. The way to performe this *motion*, is as followeth. The *right* and *left hand-man* of every ranke become the *Hinges* of the *motion*: the reſt of each rank *wheeling by equall diviſion* to the right and left about, & above their right and left-hand-Leaders, untill they become ranks to the flanks; as you may perceive by the Figure, where the *pricks* denote unto you the places they ſtood in before the *motion*: the *quarter circles*, ſhewing the *way* of their motion, themſelves being converted into two ranks, ſheweth the motion executed. I have onely *converted* three of the ranks; for it would have taken too much room, to have *wheeled* all the *ranks*. And it is eaſie by this that is ſhewn to conceive the reſt. If you would avoid *mixture of Armes*, then place all your *Muſkettiers*, either in *front*, or *reer*; or elſe *wheel* only your *Muſkettiers*, and leave your *Pikes* ſtanding; Or it may be done, the *body marching at length*, the *Muſkettiers* being in the *front* and *reer-diviſions*. The *word* for the *reducement* is, *Ranks, rank as you were*.

Ranks, wheel to the right and left by diviſion.
The firſt Front.



PPPP MMMMMMMMM PPPP

PPPP MMMMMMMMM PPPP
PPPP MMMMMMMMM PPPP
PPPP MMMMMMMMM PPPP
PPPP MMMMMMMMM PPPP

Reere.

The eaſieſt way for the *Reducement*, will be firſt for to *face* about to the *Reer*, and then to *wheel back* into their *places*. Then *face* to their *Leader*; and they will be reduced as at firſt. Now we will come to ſhew the next *figure* of *converſion*, which is of *files* converted into *Ranks* by *equall proportion*.

CHAP.

CHAP. XXXVII.

Of Files ranking in equall parts.

IN this *Chapter* I intend to ſhew the *manner of files ranking by Converſion in equall parts*; which *motion* I have ſeen uſed by ſome *Commanders*, at ſuch times as their *Companies* have been but ſmall, having not had above two or three *files* of *Muſquettiers* upon a *flanke*, and being willing to *martch forth* their *Companies* in *diviſions*. And this, becauſe that two *a-breſt* would be ſomewhat improper (unleſſe it were upon neceſſity, in ſome narrow *paſſage*) & that three *a-breſt* is alſo ſomewhat with the thinneſt; therefore to augment the *Front* of their *martch*, they have *ſhortned* ſomewhat of their *depths*, in each *diviſion*, by cauſing their *files* to *rank* foure or five, according as their *depth* may be, when the *Command* ſhall be given. This *motion* of *Converſion* may alſo be uſefull for *larger Bodies*; for if upon a *martch* you are to paſſe thorow ſome *ſtrait*, where not above four or five can *martch a-breſt*, and that being paſt thorow, you are to direct your courſe to the *right* or *left*: If your way be to the *right*, then cauſe your *files* to *rank* to the *left*: If to the *left*, then let the *files rank* to the contrary hand. For by ſo doing, having paſt the *ſtrait*, and faced your *Body* that way which you intend your *Martch*, by commanding the *File-leaders* to *martch*, and the *half-files* to *ſtand* and take their places, your *Body* will be led again by their *proper File-leaders*, all *a-breſt*: the *Muſquettiers* becomming again the *Flankers*, which in the paſſage of the *ſtrait* were in the *Front* and *Reere*. For the better underſtanding the manner of the *motion*, obſerve the following *Figure*.

Files, rank foure to the left.

Front.

This was the

1 File	M	M	M	M	*f*		
	M	M	M	M	*h*		
2 File	M	M	M	M	*f*		
	M	M	M	M	*h*		
3 File	M	M	M	M	*f*		
	M	M	M	M	*h*		
4 File	M	M	M	M	*f*		
	M	M	M	M	*h*		
5 File	P	P	P	P	*f*		
	P	P	P	P	*h*		
6 File	P	P	P	P	*f*		
	P	P	P	P	*h*		
7 File	P	P	P	P	*f*		
	P	P	P	P	*h*		
8 File	P	P	P	P	*f*		
	P	P	P	P	*h*		

9

P *f*

P

P

P P *h*

P

16	15	14	13	12	11	10
M	M	M	M	P	P	P P
M	M	M	M	P	P	P P
M	M	M	M	P	P	P
M	M	M	M	P	P	P
M	M	M	M	P	P	P
M	M	M	M	P	P	P
M	M	M	M	P	P	P
M	M	M	M	P	P	P

The way to performe this *Motion* is as followeth: The *Command* being firſt given (as above-ſaid) the *right-hand-file-leader* leadeth forth his *file*, and the *three next men* behind him move forwards to the *left* of each other, until they *rank even a-breſt* with their *file-leader*. The next *foure* in like manner *ranking* to the *left*, make the ſecond *rank*. The *file-leader* of the ſecond *file* placeth himſelfe next after him that was the *halfe-file-leader* of the firſt, which now is become the *right-hand-man* of the ſecond *rank*; the *three next men* behind him making up of his *rank* in like manner: And ſo forward for all the reſt, untill the *Motion* be fully perfected. This *converts* each *file* into two *ranks*, and brings all the proper *file-leaders* and *halfe-file-leaders* to make the *out-moſt file* to the *right*; the *bringers-up* both of the *Front* and *Reer-half-files* make the *outer-moſt file* to the *left*. The figures of number which are on the *left-flank* of the *Figure*, in which the word *file* added to each of

Direction for files ranking 4. to the left.

th.m,

them, demonſtrates the *places* of the *firſt*, *ſecond*, *third*, and *fourth file*; and ſo conſequently for all the reſt, according to their *former ſtanding*, and the *places* they now occupy, being *converted* into *ranks*. The letters *f* and *h*, which are placed on the *right-flanke*, ſhewes the *places* of thoſe which were the *file-leaders* and *halfe-file-leaders*; each of the proper *file-leaders* having now his *half-file-leader* next after him. I have ſhewen this *Figure* partly *performed*, partly *performing*, and partly *ſtanding* as before the *Motion* began.

The Reducement. For *reducement* of this *Motion* of *files ranking foure to the left*, one way is, to cauſe your *ranks* to *file* (or *invert*) *to the right*: which being done, *Command every File-leader to lead up his file to the left*; and ſo every man will have his *place*. For another way, *Face the whole Body to the right, and command the File-leader to march, and halfe-files to ſtand, and take their places*; and then they are all *reduced*; onely the *File-leaders* of the *right-flank* are on the *left*, and the *File-leaders* of the *left-flank* are on the *right*; which is *reduced* by any *intire Counter-march of rank or file*.

A ſecond way of Reducement.

CHAP. XXXVIII.

The concluſion of Doublings.

THere are yet another ſort of *Doublings*, both of *length* and *depth*, which are performed by *diviſionall wheelings*, which becauſe they have ever been accounted for *wheelings*, I will not diſplace them; but ſtill rank them in their former places, although in truth they are *Doublings*: The *working part* indeed is *wheeling*; but the *intent*, or *thing wrought*, is *Doubling*. I will ſpeak further of them when I come to ſhew them in their ſeverall places. And here I mean to ſet a *Period* to our *Doublings*: Concluding, that thoſe *Souldiers* who can put every one of theſe to his right uſe, as alſo give to each his right *reducement*, muſt needs be skilfull and expert in this part of the *Art Military*. And contrariwiſe, they that are ignorant in theſe *Doublings*, can never truly attain to the right-managing of a *Foot-company*, either for *exerciſe* or *ſervice*. For *Doublings*, indeed, are the onely *Motions* for *variety* and *alteration* of *Figures*, or *formes* of *Battaile*; no other *Motions* doing the like: And therefore, *Doublings* muſt needs be accounted the moſt *excellent* amongſt all the *Motions*.

You that have eyes to read, and skill to judge,
And have perus'd theſe Doublings *I have done,*
Though I have tedious *been, yet doe not grudge;*
For you know well, I have skipt over ſome:
But marvell not, the cauſe I doe not ſhew them;
It is not much materiall for to know them.

Thoſe that are skilfull in the Art *of* Warre,
And take delight to exerciſe *their* Men,
Shall find more pleaſure in theſe Doublings *farre,*
If that they intermixe *them now and then;*
And ſo contrive their Doublings *in theſe eaſes;*
And laſtly, one word brings them to their places.

Why in our Country *doe wee* Captains *chuſe,*
That have no skill, *nor* art-full *inclination?*
They doe themſelves and Country *much abuſe,*
That to deceive them in their expectation.
I think the Cauſe of this fault in our Nation
Is, that our Gentry *holds not* Armes *in* faſhion.

But ſome, perhaps, will ſay, I am too bold;
There's no ſuch need for Captains *to have* skill:
The Muſter-maſters *have enough (ſome hold)*
The Captains *and the* Countries *for to fill.*
So whilſt the Muſter-maſter *doth the* labour,
The Officers *may play upon a* Tabour.

But ſtay, me thinks, one pulls me by the ſleeve,
And tells me that I have my ſelfe forgot:
Wherefore of Doublings *here I take my leave;*
Intreating thoſe that read, miſtake me not.
Let *Muſter-maſters* take their money, then;
But let the *Captains* exerciſe their men.

CHAP.

CHAP. XXXIX.

Of Counter-martches: Their Antiquity, and words of directions.

THe next branch of *Diſcipline* which offers it ſelfe to your peruſall, are *Counter-martches*: which are of three kinds. To wit, *Chorean, Lacedemonian, Macedonian:* which is, Maintaining, Loſing, and Gaining. Each of them are to be performed two manner of wayes. One by *File:* the other by *Ranke.*

There are alſo *Counter-martches, Intire,* and *Diviſionall.* But divers men are as divers in their opinions concerning the *Macedonian* and *Lacedemonian Counter-martches.* Some will have the *Macedonian,* a *Counter-march* of gaining ground; becauſe that it transfers the *Battalia* into the ground before the *Front.* Others will have it, a *Counter-martch* of loſſe; becauſe (ſay they) the *Enemy* being in the *Reere,* it makes a ſemblance of flying. Some will have the *Lacedemonian,* a *Counter-march* of gaining ground; becauſe the *Enemy* appearing in the *Reere,* it makes a ſemblance of charging or falling on. Others call it, a *Counter-martch* to loſe ground; becauſe it loſeth all that ground the *Battalia* ſtood upon; taking in ſtead thereof the ground behind the *Reere.* There are others of opinion, that there are *Counter-martches* of loſſe and gaine, in either of them. All theſe are furniſhed with *reaſons,* to back their *opinions.* But if I ſhould ſtand to ſhew their many and ſeverall reaſons, I might well be thought to be without reaſon my ſelfe. My opinion is, that taking the ground before the *Front,* is gaining ground: and that to leave the ground we ſtood on, to take the ground next behind the *Reere,* is loſſe of ground: And yet to take either, whereby there is advantage gotten, muſt needs be gaining. But where the matter it ſelfe is ſo indifferent, it were fondneſs to ſpend longer time about it. Wherfore note, that *Counter-martches* were of ancient uſe amongſt the Greeks many hundred of yeares ſince, and from them learned, and practiſed by many other *Nations*; and ſo ſtill continued unto this day. But as the *Snow-ball* by much rowling becomes the greater: So, in like manner theſe *Counter-martches* have received *addition* in all ages. So that the three originall ones are now become more then thirty, accounting thoſe *diviſionall*; and yet are all of them fathered upon one or other, of the three kinds. Though ſome of them will ſcarcely be owned or acknowledged; as you ſhall perceive, when I come to ſhew them in their ſeverall places. But amongſt all the *Motions,* this might be the beſt ſpared: as being leaſt beneficiall to this our *moderne Diſcipline.* But becauſe that *knowledge is no burthen,* and that at ſometimes they may be uſefull; therefore firſt take the *words* of *Command* or *Direction,* which are as followeth.

Diverſities of opinions concerning loſing and gaining of ground.

To go backe unto the ground we have formerly paſt, is loſſe of ground.

Counter-martches of great antiquity.

Counter-martches leaſt uſefull of all other parts of the Art Military.

Intire Counter-martches by File.

Files to the {*Right*, *Left*} *hand, Counter-martch.* Chorean.

Files to the {*Right*, *Left*} *Counter-martch, every man turning on the ground he ſtands.* Lacedemo.

File-leaders face about to the {*Right*, *Left*} *the reſt paſſe through to the* {*Right*, *Left*} *and place your ſelves behind your Leader.* Macedoni.

File-leaders ſtand; the reſt paſſe through to the {*Right*, *Left*} *placing your ſelves before your Leaders.* Baſt. Counter-martch.

File-leaders ſtand; the reſt paſſe through to the {*Right*, *Left*} *placing your ſelves before your Leaders; following your Bringers up.* Baſt. Counter.

Bringers-up face about to the {*Right*, *Left*} *the reſt paſſe through to the* {*Right*, *Left*} *and place your ſelves before your Bringers-up.* Lacedemo.

Bringers

Lacedemo. *Bringers-up, ſtand: the reſt of* {*Right*} *the Body paſſe through to the* {*Left*} *placing your ſelves behind your Bringers-up.*

Intire Counter-martches, by Ranks.

Cretan or Chorean. *Ranks to the* {*Right*} *Counter-march.*

Lacedemo. *Ranks to the* {*Right*} *Counter-march, every man turning on the ground hee ſtands.*

Macedoni. *Right-hand-File, face to the left: the reſt paſſe through to the right: placing your ſelves behind your right-hand-men.*
Left-hand-file may face to the right, and doe as much.

Baſt. Counter-martch. *Right* {*hand-file ſtand; the reſt* {*Right*} *paſſe through to the* {*Left*} *placing your ſelves on the out-ſide of your* {*Right*} {*Left*} *hand-men.*

Lacedemo. *Right* {*hand-file* {*Face to the* {*Right*} *Left*} *the reſt paſſe through to the* {*Right*} *Left*} *placing your ſelves before your* {*Right*} {*Left*} *hand-men.*

Diviſionall Counter-martches, by Files.

Cretan, or Chorean. *Counter-martch Front and Reere into the midſt.*

Baſt. Count. *File-leaders, and half-file-leaders, ſtand; the reſt paſſe through to the right, and place your ſelves before your Leaders.*

Lacedemo. *File-leaders, and bringers-up, ſtand; the reſt paſſe through to the right: and place your ſelves before your Leaders and Bringers-up.*

Macedoni. *File-leaders, face about; Bringers-up, ſtand; the reſt paſſe through to the right; and place your ſelves behind your leaders and bringers-up.*

Baſt. Count. *Front-half-files, interchange ground with the reere.*

Diviſionall Counter-martches, by Ranks.

Chorean or Cretan. *Counter-martch your wings (or flanks,) into the midſt (or Center.)*

Lacedemo. *The outmoſt file of each Flanke, face outward: the reſt paſſe through to the right and left; placing your ſelves before your out-ſide men.*

Macedoni. *The out-moſt file of each Flanke face inward: the reſt paſſe through to the right and left; placing your ſelves behind your out-ſide men.*

Baſt. Counter-martch. *The out-moſt file of each Flanke, ſtand: the reſt paſſe through to the right and left, and place your ſelves on the out-ſide of your out-ſide men.*
Interchange your Flanks.

Note what is done by the *out-moſt Files*, may be *reduced* by controverting the *command* to the *innermoſt Files*; but muſt be done before they have cloſed their *diviſions*, &c.

CHAP. XL.

Of the Chorean Counter-martch: and the way to performe it.

The diſtance for Counter-martch, is ſix foot, or open order in rank and file.

I Could willingly have prickt a *Figure* for each of theſe *Counter-martches*, but that they will take up too much roome. And therefore I will onely prick ſome few of the hardeſt of them; and for the reſt, I will endeavour by words to make them as *facile* as I may: that ſo they may be apprehended by the meaneſt capacity. And firſt I will begin with the (*Perſian, Cretan*, or) *Chorean counter-martch*. The *word* of *Command*, or *Direction* is,

Files to the right-hand, Counter-martch.

[a] *Note that when there is a Counter-martch comman-*

This [a] *Chorean Counter-martch*, is by ſome called the *Modern Counter-martch*. I conceive their reaſon to be, becauſe that it is more in uſe then any of the other: Or elſe, for antiquity, it might claim many Ages. It is a *Counter-martch maintaining ground*: for it worketh its effect on the ſame *ground it ſtands*; neither *loſing* nor *gaining*. But it *tranſfers* the

file-

file-leaders into the *place* of the *bringers-up*: and the *bringers-up* into the *place* of the *file-leaders*: withall turning the *aſpect* of the *Body*, or *Battalia*, to the *Reere*. The way to performe this *motion* is as followeth: As ſoon as the [b] *Word of Command* is given, if it be to the *right*, then all the *file-leaders* ſtep forwards with their right legs, and *face-about to the right*; every *file-leader* with his *file* following him, paſſing down towards the *Rear*, through the *intervall* on his right-hand, ſtill obſerving to keep *even* in *rank* with his *right-hand-man*. But, by the way, note that no man muſt *turne* untill hee come to the *ground* where at firſt his *file-leader* began the *Counter-march*. This *Motion* is then performed, when the *Bringers-up* have attained unto the *place* where before their *file-leaders* ſtood; being *faced* right after them.

And without any other addition, then it is always intended a Chorean *Counter-march.*

[b] *Obſerve the direction for the* Chorean *Counter-march.*

Files to the left-hand, counter-march.

To *counter-march* to the *left*, worketh the ſame effect, and is done after the ſame manner; onely *differing* in the *hand*.

For *reducement*: If you *counter-march* to the *right*, doe as much to the *left*, and they will be as they were. For any *intire Counter-march* of *files* will be *reduced* (of what kind ſoever) by making another *intire Counter-march*, to what *hand* ſoever.

But if any deſire to be ſo *curious*, as to have them not onely *reduced* to the ſame *aſpect*, but alſo *preciſely* to the ſame *place*; then, if the *Counter-marteh* were to the *right*, *counter-march* againe to the *right*; if to the *left*, accordingly to the *left*.

CHAP. XLI.

Of Counter-marching to loſe ground.

The Command is, *Files to the right, counter-march; every man turning after his Leader on the ground hee ſtands.*

THis Lacedemonian *Counter-march*, is a *Counter-march of loſſe of ground*; *for that it leaves all the ground the Battalia formerly did containe, and in lieu or place thereof taketh the ground behind the Reere*. This *Counter-march* is to be performed when the *Body* is upon a *ſtand*: And (as the *Chorean*) it turnes the *Aſpect towards the Reere*. The The *Greeks* were wont with this *Counter-marteh* to bring their *file-leaders* to oppoſe any Enemy appearing in the *Reere*; thereby gallantly bearding their Enemies in the teeth: neither politickly making ſhew of *flight*, whereby to bring the Enemy into *diſ-array*; nor over-providently carefull of the *advantage of ground*. The *Motion* of this *Counter-marteh* is to be performed as followeth: The *file-leaders* of each *file* are to ſtep ſide-wayes to the *right*, and therewithall to *face-about* to the *Reere*, and ſo *march* even in *rank* together down between the * *Intervalls*, no man advancing a *foot* forwards, but turning in like manner after their *Leaders*, when they are paſt by them; ſtill obſerving to keep their due diſtance: And ſo a whole *rank* together, ſtill turning off to the *right*, each *rank* ſucceſſively doing the like, untill the *Counter-march* be fully performed. Any *intire Counter-march* of *files* will *reduce* this. But, for order ſake, take one of the ſame ſort to the contrary *hand*; which is,

* *An Intervall is the ſpace of ground between file and file, or ranke and rank; but in this place is intended the ſpace of ground between the files.*

Files to the left, counter-march; every man turning after his Leader, on the ground hee ſtands.

I ſhall not need to ſpeak further concerning this *Counter-march* of loſſe of ground to the *left*, ſeeing that it differs from the other onely in the alteration of the *hand*: the ſubſtance and effect of both being one and the ſame. Only I will now ſpeak of a ſecond ſort of *Counter-march*, which is of the ſame kind: The Command is,

Bringers-up, face-about to the right; the reſt paſſe through to the Reere, and place your ſelves before your Bringers-up.

Lacedemo. This *Lacedemonian Counter-march* doth alſo loſe the ground whereon it formerly ſtood; and takes the ground behind the *Reere*. The manner of the *Motion* is as followeth: The laſt *rank* (or *Bringers-up*) *face-about to the Reere, and ſtand*; the reſt of the *Body facing-about* in like manner, and paſſing through or between their *Bringers-up*, and placing themſelves *even* in *rank* before them. The *Motion* is begun by the *ranke* next the *Bringers-up*, and ſo continued ſucceſſively by the reſt, untill the *Counter-march* be ended. It may be *reduced* by doing the ſame to the *contrary hand*. Nevertheleſſe, for brevity ſake, I will make uſe of a ſprig from the ſame bough, and *reduce* this *Lacedemonian Counter-march* by another of the ſame kind. The Command is,

Bringers-up, ſtand; the reſt paſſe through to the right, and place your ſelves behind your Bringers-up.

Lacedemo. This *Lacedemonian Counter-march* is thus to be performed: The laſt *rank* (or *Bringers-up*) are to *ſtand*, and the reſt of the *Body* to *face* to the *Reere*, and paſſe through to the *right*, and place themſelves behind their *Bringers-up*; contrary to the *Counter-march* laſt ſhewen, where they placed themſelves before. The *Motion* is alſo begun by the ſecond *ranke* from the *Reere*, the reſt following ſucceſſively, untill the *File-leaders* are become the *Bringers-up*; then *face* them about after their proper *File-leaders*, and they are *reduced*.

CHAP. XLII.

Of Counter-martches to gain ground; or, the Macedonian Counter-march.

The Command is,

File-leaders, face-about to the right; the reſt paſſe through to the right, and place your ſelves behind your Leaders.

Macedoni. THis *Macedonian Counter-march* is for *gaining ground*; for that it leaves the ground the *Battalia* formerly ſtood upon, taking in *lieu* thereof the ground next before the *Front*: It alſo turns the *aſpect* towards the *Reere*. The *motion* of this *Counter-march* is from the *Reer* to the *Front*; contrary to the *Lacedemonian*, whoſe *Motion* is from the *Front* to the *Reere*. This *Macedonian Counter-march* makes ſemblance in the *Reere* of *flight*, but preſently produceth an orderly ſetled *Front*, when perhaps the Enemy, with a two early purſuit, hath broken the order of their array.

Macedon. *Counter-march makes ſemblance of flight.*

The way to performe this *Counter-march*, according to the directions formerly given, is as followeth: The *file-leaders* (or firſt *ranke*) *face-about to the right*; the reſt of the *body* paſſe through between the *Intervalls* (or diſtances of files) to the *right*, and place themſelves behind their *Leaders*; every *rank* (beginning with that next the *file-leaders*) paſſing through ſucceſſively, and taking their places, untill the *Counter-march* be fully executed. It may be *reduced* as the reſt, by doing the ſame to the *contrary hand*: or, as I have formerly ſaid, by any *entire Counter-march of file*; and therefore I will *reduce* it by another *Macedonian Counter-march*. The Command is as followeth:

File-leaders, face to the Reere; the reſt of the Body paſſe through to the left, following your Bringers-up, placing your ſelves behind your Leaders.

Macedoni. This *Macedonian Counter-march* is rather remembred for its antiquity than excellency, (as ſome more of them be;) nevertheleſſe, if any will be curious to obſerve the *Motion*, it may be performed as followeth: The *firſt ranke* (or *file-leaders*) *face* to the *Reere*, then the *laſt ranke* begin the *Counter-march*, paſſing forward between the *Intervals*; the *ſeventh ranke* following the *eighth*, the *ſixth* following the *ſeventh*, and ſo likewiſe the reſt, untill the whole *Body* be tranſferred into the ground before the *Front*; and then joyntly together *facing to the right-about*, after their *Leaders*, the *Counter-march* is ended. For *reducement*, obſerve this for all, that any *entire Counter-*

march

march of file, may be *reduced* by another *intire Counter-march by file*, of what *kind*, or to what *hand* ſoever.

Theſe three laſt Chapters of *Counter-marches*, are the originall grounds of all the reſt; yet I ſhall ſhew one in the enſuing Chapter, which time hath begotten out of the latter *two*; which takes part with *either*, being abſolute in *neither*.

CHAP. XLIII.

Of the Baſtard Counter-march.

The Command is, *File-leaders, ſtand; the reſt paſſe through to the right, and place your ſelves before your Leaders.*

THis paſſing through (or *Baſtard Counter-march*) is partly *Macedonian*, and partly *Lacedemonian*; for firſt with the *Macedonian* it takes the ground before the *Front*, the *Motion* being from the *Reere* forward: it is partly *Lacedemonian*, for that they paſſe through, and place themſelves before their *Leaders*, and for that it makes ſemblance of *falling on*, or *charging* the Enemy. Nevertheleſſe, the *Macedonian* diſclaimes it, for that it alters not his *aſpect*: The *Lacedemonian* refuſeth it, for that it takes the ground *before the Front*, and not that *behind the Reere*: and with the *Chorean*, it holds no affinity. And, indeed, many there be that will not allow it for a *Counter-march*; for certain, the word it ſelfe will not beare it: Notwithſtanding, ſeeing that it hath been long ranged amongſt them, I will not be hee that ſhall diſplace it, but will paſſe forwards, to ſhew the manner of the *Motion*; which is to be performed as followeth: * The *File-leaders* ſtand, according to the former direction, the reſt of the *Body* advance their *Armes*, the *ſecond rank* firſt paſſing through to the *right*, and placing themſelves before the *firſt ranke*, the *third rank* before the *ſecond*, the *fourth* before the *third*, and ſo forwards for the reſt, untill the *laſt rank* (or *Bringers-up*) are become the *fore-moſt*; which perfects the *Motion*. It may be ſeverally uſefull; as to *skirmiſh* againſt an Enemy, advancing by way of [d] *introduction*; or upon occaſion to bring the *Reere-men* to *march* in *Front*, and ſuch like. For the *Reducement*, you may doe as much to the *contrary hand*; onely, for order ſake, I will *reduce* it by another like it ſelfe. Baſt. Coun.

* *Inſtructions to performe the motions of this Counter-march.*

[d] *This Baſtard Counter-march is the ſame with Introduction.*

The Command is, *File-leaders, ſtand; the reſt paſſe through to the right, placing your ſelves before your Leaders, following your Bringers-up.*

This *Motion* may be done either to the *right* or *left*, and is nothing differing from that *laſt* ſhewen, but that, whereas the *other* began with the *ſecond rank*, this contrariwiſe begins with the *laſt ranke*, (or *Bringers-up*) every *rank* ſucceſſively following the *rank* which came from behind them, untill they which were the *Leaders* are become the *laſt* in the *Reere*. If this *Counter-march* be firſt done, it may be *reduced* by any of thoſe formerly ſhewen, &c. Baſt. Coun.

CHAP. XLIV.

Of Counter-marching Ranks to maintaine ground.

The Command is, *Ranks to the right-hand counter-march.*

THis *Chorean Counter-march of Ranks, is an altering or changing of one Flanke for the other, the Battalia ſtill keeping the ſame ground, onely the right-flank becomes the left, and the left becomes the right.* The way to performe this *Motion* is as followeth: The *command* being given, then the whole *Body faceth* to the *hand* named, and every man in the *owr-moſt file* to the *right*, (*files* by this *facing* being become *ranks*) turnes down through the *Intervall*, (or *diſtance* between *rank* and *rank*) *marching* forth-right unto the *part*, which was the *left-flanke*, with their *ranks*, *file-wiſe*, following them: being come unto their ground, they *face* as before, and the *Counter-march* is performed. Chorean.

For the *Reducement*, let *ranks counter-march* to the *left*, after the ſame manner, differing onely in the hand, and they are as at firſt.

CHAP. XLV.

Of Counter-marching Ranks to loſe ground.

The Command is, *Ranks to the right-hand counter-march, every man turning after his right-hand-man, on the ground hee ſtands.*

Lacedemo. *Ranks by this facing become files, and files to the contrary become ranks.*

THis *Lacedemonian Counter-march of Ranks, is a falling on upon the left-flank, the Motion being begun by the right*: It leaves all the ground the *Battalia* ſtood on, and takes in place thereof the *ground beſide the left-flanke*, turning the *aſpect* to the *left*. The manner or way to performe this *Motion* is as followeth: The whole *Body faceth to the right*, and then the *right-hand-file*, being *faced*, (becomes a *ranke*) begins the *Counter-march*, turning down the *Intervals* of the *Ranks*, (which by this *facing* is made the *diſtance* between the *files*) and ſo *marcheth* forth-right, beyond that which was the *left-flanke*, every man following him that was his *right-hand-man*, (but not ſtepping forwards one foot of ground) untill the *Counter-march* be performed. For the *Reducement* of this *Counter-march*, doe as much to the *left*, and they will be as at firſt: Or (if you pleaſe) take another of the ſame kind: The word of *Command*, or *Direction*, is,

Right-hand-file, face to the right, the reſt paſſe through to the right, and place your ſelves before your right-hand-men.

Lacedemo. This *Lacedemonian Counter-march of Ranks, makes a falling on upon the right-flanke*, the *Motion* being from the *left-flank* to the *right*, leaving all the ground whereon the *Battalia* ſtood, and taking in lieu thereof the *ground beſide the right-flank*. In thoſe dayes, when *Counter-marches* were more uſefull and accommodable to their *Military practices* and *diſcipline*, than now they are for ours, the *Lacedemonian Counter-marches* were of chiefe repute, as well amongſt the *Macedonians* as the *Spartans*, and others. The way to performe this *Motion* is as followeth: The *right-hand-file faceth* to the *right*, the reſt of the *Body facing* to the *right*, doe paſſe through the *Intervals*, or ſpaces, to the *right*, placing themſelves before their *right-hand-men*, untill the *left-hand-file* become the *foremoſt rank*. If you doe this *Counter-march* by it ſelfe, then for *Reducement*, firſt *face* them to their *Front-proper*, then let the *left-hand-files face* to the *left*, and doe as much to the *left*; and then they will be as at firſt.

CHAP. XLVI.

Of the Macedonian *Counter-march by Rank.*

The Command is, *Right-hand-file, face to the left; the reſt paſſe through to the right, placing your ſelves behind your right-hand-men.*

Macedoni. THis Macedonian *Counter-march of Ranks, contrary to the* Spartan, *diſ-marcheth from the Enemy, upon that Flank where hee appeares, and preſents the contrary Flank to receive the Charge*. It is performed after this manner: The *out-moſt file to the right faceth to the left*; the reſt of the *Body* (or *Battalia*) *faceth to right*, every man paſſing through to the *right*, and placing themſelves behind their *right-hand-men*. For the *Reducement* of this *Counter-march*, as all the reſt, there are divers and ſeverall wayes; but, performe as much to the *left* as you have done to the *right*, and they will be as at firſt: Or, if you pleaſe, this following *Baſtard Counter-march* will doe the ſame:

The word of *Command*, or *Direction*, is, *Right-hand-file, ſtand; the reſt paſſe through to the right, placing your ſelves on the out-ſide of your right-hand-men.*

Baſt. Counter-march. This paſſing through, or *Baſtard Counter-march*, of *Ranks*, doth alter both *ground* and *flank*, (ſtill reſerving the *aſpect* without *alteration*.) It is to be performed as followeth: The *out-moſt*, or *right-hand-file*, *ſtands*; the reſt of the *Body*, *facing* to the *right*, paſſe through

through to the *right*, every man placing himſelfe on the *right* ſide of his *right-hand-man*, and ſo ſtanding even in *ranke*, the *Motion* ſtill continuing, untill the *left-hand-file* is become the *right*; the *right* the *contrary*. If this *Counter-march* be done alone, for the *reducement*, let the *left-hand file* ſtand, and doe as much to the *left*, as before to the *right*, and they will be as at firſt.

CHAP. XLVII.

Of Counter-marching Front and Reere into the midſt.

FOr the *Intire counter-martches*, I have indeavoured to expreſſe them, as well as I could in words, but for the *diviſionall counter-martches*, I intend to demonſtrate both in *word* and *figure*, whereby they may be the more eaſily apprehended by ſuch as ſhall be deſirous to know them: notwithſtanding before I enter upon the *diviſionall counter-martches*, I would willingly cleare one thing which by ſome will be carped at, which is the uſing of the word *Middeſt*, in ſtead of the word *Center*: The word *Center* (I confeſſe) hath bin the more uſuall word amongſt us: and yet it is not altogether ſo proper to our uſe as the other; wherefore give me leave, without offence, to uſe thoſe words, which are not onely more proper, but more ſignificant. The *Midſt* of the *Battell* is to be underſtood, either from the *Front* and *Reere*; or from both *Flanks* (or *Wings*): If between *Front* and *Reere*, the *Midſt* muſt between the *half-file-leaders*, and the *Reer-ranke* of the *Front-half-files*, extending it ſelfe from *Flanke* to *Flanke*: The *Midſt* between the *Flanks* is between the two *innermoſt files*; continuing the whole *depth* from *Front* to *Reere*. The *Center* is truly the extreameſt part, tittle, or point in the *midſt* of a *circumference*, and therefore not ſo pertinent to expreſſe the intention and true underſtanding of the *Motion*, as the word *Middeſt*. Wherefore not to trifle time in matters ſo apparent, we will proceed to our firſt diviſionall *Counter-march*, which ſhall be *Chorean*.

Of diviſionall Counter-martches.

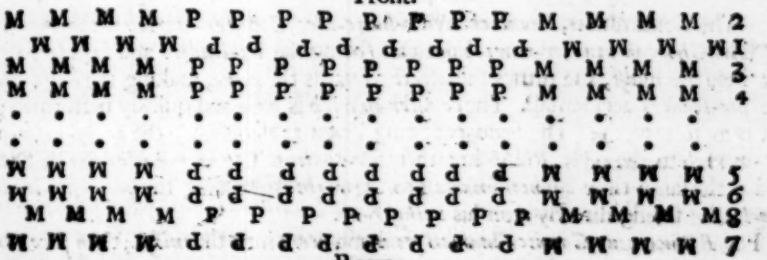
Middeſt and Center.

The midſt is to be underſtood in a two-fold ſenſe, either betweene the Files, or between the Ranks.

The Command is, *Counter-martch Front and Reere into the midſt.*

The Direction is, *Halfe-files face to the Reere: Front-halfe-files turne off to the right; Reere-half-files to the left.*

Front.



Reere.

Chorean.

This *diviſionall Chorean Counter-martch*, brings our *File-leaders*, and *bringers-up* together in the *midſt*, and the *ranks* that were in the *midſt* into the *Front* and *Reere*. It is a *Counter-martch* maintaining ground; for every man *marcheth up* into his *leaders* ground, before he *faceth* about to *Counter-martch*: The way to performe the *Motion*, is as followeth. The *command* being given to a *counter-martch*, either let the *Commander*, or ſome other of the *Officers*, command the *half-files* to *face-about*: then the *file-leaders* ſtep-

Note that for Counter-martching Front and Reere into the midſt, the Front-half-files ever turne off to the Right, the Reer-half-files to the Left, which being truly obſerved, they will always meet even in the middle of the Battaile, where to the contrary if they turne both off to the Right, they can never doe the Counter-march *but wrong.*

ping forwards with the right leg, *face about* to the *right*, paſſing downe the *Intervals* on the *right-hand*, the reſt of the *Front-halfe-files* following their *Leaders*, and not *turning* untill they come to the ground where their *Leaders* turned down before them: The *bringers-up* with the *Reer-halfe-files*, at the ſame inſtant turning downe their *Intervals* on the *left-hand*, the reſt of their *diviſion* following them, untill the *file-leaders* and *bringers-up* meet together in the *midſt* of the *Battell*, and then having *faced* all to their *leader*, the *Motion* is performed. For the *Reducement* of this *figure*, doing the ſame thing over again will *reduce* it; or any other *diviſionall Counter-march* of *file*.

CHAP. XLVIII.

Of bringing Front and Reere together, into the midſt, by the Baſtard Counter-march.

The Command is, *File-leaders, and halfe-file-leaders ſtand, the reſt paſſe through to the right, and place your ſelves before your Leaders.*

Baſt. Counter-march.

THis *Baſtard Counter-march* doth bring the *leaders* and *bringers-up* together, into the *midſt*, and ſaves two facings, and is quicklier performed, then the other laſt done, or any other in the precedent Chapters: The way to performe the *motion*, is as followeth: The *firſt Rank* ſtands, and the *halfe-file-leaders* ſtand, then thoſe of the *front-halfe-files* paſſe through their *Intervals* to the *right*, placing themſelves before their *file-leaders*: The *ſecond Ranke* before the *firſt*, the *third* before the *ſecond*, the *fourth* before the *third*, the *reer-half-files* at the ſame inſtant doing the like, and placing themſelves before their *half-file-leaders*, as the other did before their *file-leaders*: This *Motion* may be either reduced by doing the ſame over againe to the contrary hand, or elſe by *Counter-marching Front* and *Reere* in the *midſt*, or by any other of the *diviſionall Counter-marches* of *Files*.

Note, that as the Front-halfe-files empteth the ſpace of ground between the leaders and halfe-file-leaders; placing themſelves in the ground before the front, ſo in the meane time their places are repleniſhed by the ſouldiers of the reer-halfe-files, which march up and ſupply their roomes.

Another way of bringing the front and reere into the midſt, by the Chorean Counter-march.

The Command is, *Front and Reer-halfe-files, Counter-march to the right.*

Chorean.

THis *Chorean counter-march* doth alſo bring the *file-leaders* and *bringers-up* together into the *midſt*, and turnes the *aſpect* towards the *reere*, making the *halfe-file-leaders*, the *file-leaders* accidentall. The *counter-march* is eaſie and quickly performed; the manner is as followeth: (The *command* being given as aforeſaid) the *front-halfe-files counter-march* to the *right*, following their *file-leaders*. The *reer-halfe-files* in like manner, and at the ſame time *counter-march* to the *right*, following the *halfe-file-leaders*, every *file-leader* falling directly after his *bringer-up*.

The Reducement.

For *Reducement*, *Counter-march front* and *reere* into the *midſt*; then *face* to the *firſt front*, and they are as at firſt.

Part Counter-march.

Sometimes occaſion may require a *part-counter-march*, as when the *Front-halfe-files*, *Reer-half-files*, *halfe-ranks* of the *right*, *half-ranks* of the *left*, or any other part of the *body* (more or leſſe) doth *counter-march* to either hand, not intermixing with the ſtanding part of the *body*: and theſe *part-counter-marches* may be performed after the *Chorean*, *Lacedæmonian*, or *Macedonian* way: nevertheleſſe, I willingly forbeare to enlarge my ſelfe; rather with the dogs of *Nile* run and lap, giving onely a touch of theſe things and away; leaving others more amply to proceed, that ſhall affect more curioſity; whilſt I proceed to the next Chapter and *Counter-march*.

CHAP.

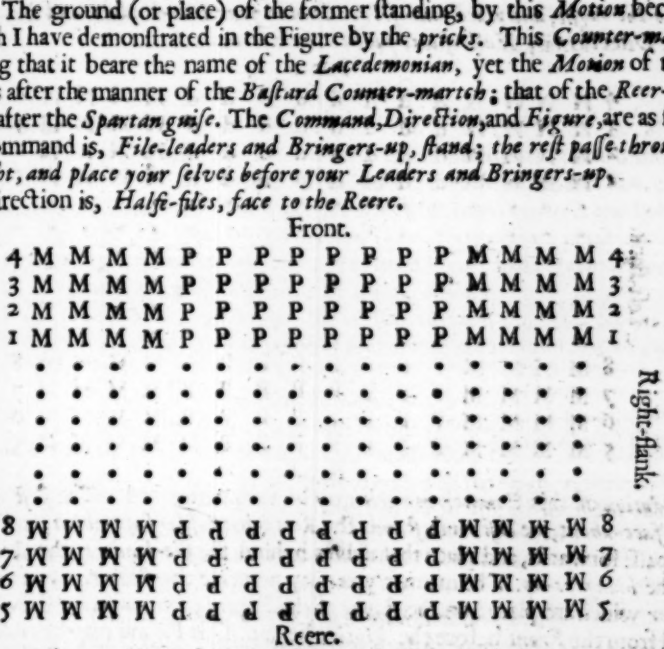
CHAP. XLIX.

A diviſionall Counter-march, to make a large Intervall between the firſt and laſt Ranks.

THis *Diviſionall* Lacedemonian *Counter-march* makes ſemblance of *charging, or falling on* to the *Front* and *Reere*; leaving all the ground which was occupied by the Souldiers between *Front* and *Reere*, transferring them into the ground before the *Front*, and behind the *Reere*: The ground (or place) of the former ſtanding, by this *Motion* becoming vacant; which I have demonſtrated in the Figure by the *pricks*. This *Counter-march*, notwithſtanding that it beare the name of the *Lacedemonian*, yet the *Motion* of the *Front-halfe-files* is after the manner of the *Baſtard Counter-march*; that of the *Reer-halfe-files* only being after the *Spartan guiſe*. The *Command*, *Direction*, and *Figure*, are as followeth.

The Command is, *File-leaders and Bringers-up, ſtand; the reſt paſſe through to the right, and place your ſelves before your Leaders and Bringers-up.* Lacedemo.

The Direction is, *Halfe-files, face to the Reere.*



The way to performe this *Motion* is as followeth: The *halfe-files* are commanded to *face* to the *Reere*, and then the *Front-halfe-files* paſſe through to the *right*, placing themſelves before their *Leaders*; the *ſecond ranke* before the *firſt*, the *third* before the *ſecond*, the *fourth* before the *third*; the *Reere-halfe-files* at the ſame inſtant paſſing through to the *Reere*, after the ſame manner, and placing themſelves before their *Bringers-up*. You may perceive by the figures of *Number*, placed on the *flanks* of the *Figure* of *Battell*, both how the men ſtood before the *Motion* began, as alſo how, and in what place they ſtand, the *Motion being ended*. For the *Reducement*, if you have not cloſed their *diſtance*, you may *face* them *about*, and ſo let them paſſe againe into their places: Or elſe, by doing the ſame *Counter-march* over againe, or to the *contrary hand*, or any ſuch like way, will *reduce* them. This next following *Counter-march* will alſo *reduce* them; or this will *reduce* that. The *Command* and *Direction* is, as you ſhall find it placed over the *Front* of the *Figure*.

If you reduce them by another Counter-march, firſt cloſe your diviſions.

CHAP. L.

Of making a large Intervall between the firſt and laſt ranks, by the Macedonian Counter-march.

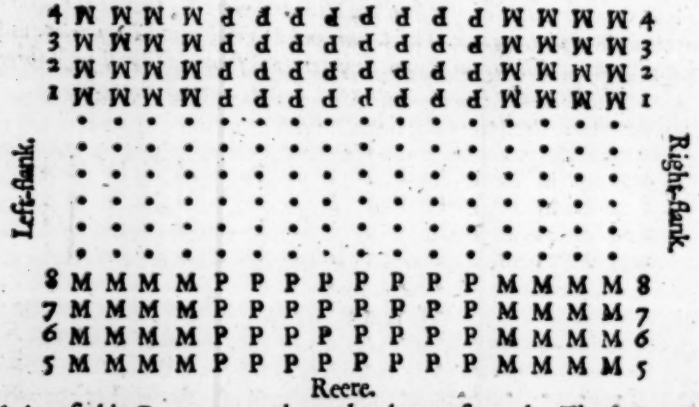
THis *diviſionall* Macedonian *Counter-march*, is little different from that next before it; onely the other turned the *aſpect outward*, to the *Front* and *Reere*, this *Counter-* Macedon.

march

march turnes the *aſpect inwards, towards the midſt*. It may be uſefull, if the *Commander* would ſhew or publiſh ought before his beſt Souldiers, for that it not onely leaves a large *diſtance*, but that it brings the beſt Souldiers into the *midſt*, with their *aſpects* directed *inwards*. It may alſo ſerve to conduct any great *Perſonage* croſſe the length of your *Battell*, whereby to ſhew them the *bravery* of your Souldiers, &c. The *Figure* followeth.

The Command is, *File-leaders face-about; Bringers-up, ſtand; the reſt paſſe through to the right, and place your ſelves behind your File-leaders and Bringers-up.*

The Direction is, *Halfe-files, face to the Reere,*



Note that when the Reer-helfe-files face-about, the laſt rank, which are the bringers-up, are ſtill to keep their ſtanding.

The *Motion* of this *Counter-march* may be thus performed: The *firſt rank* (or *file-leaders*) *face-about*, the *laſt rank ſtands*, the *Reere-halfe-files face-about*, and ſo the *Front-diviſion* paſſe forwards, and place themſelves behind the *file-leaders*, the *Reere-halfe-files* behind the *bringers-up*. The manner you may perceive the plainer, if you note the figures of *number* which are placed on the *flanks* of the *Figure*; their *number* ſhewing the places they had from the *Front* before the *Motion* began. This *Figure* may be *reduced* either by the ſame word of *Command* which produced it, or elſe by any of the fore-going *Diviſionall Counter-marches*. Our next ſhall be a *Counter-march* of *exchange of ground*. The words for *Command* and *Direction* follow in the next Chapter.

CHAP. LI.

Of Interchanging ground.

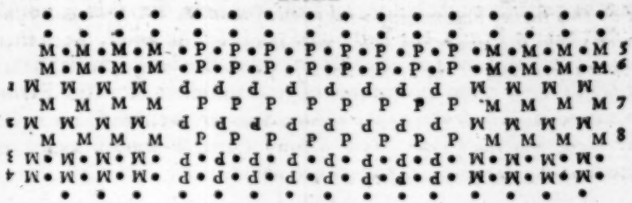
THis *Interchanging of ground*, or *Baſtard Counter-march*, may not rightly be ſaid to be derived from any one of the particular grounds of *Counter-march*; but rather participating of them all: And yet, conſidering it actually performed, it is different from them all. For whereas the other *Counter-marches* of *files* in *diviſion*, although they bring the *Front* and *Reere* into the *middeſt*, yet the *Front-halfe-files* continue ſtill on the ſame part, and the *Reere-halfe-files* doe not alter into the places of the other: But this, contrary to any other of the *diviſionall Counter-marches*, *tranſferres the Front-halfe-files into the ground or place of the reer-halfe-files; and them into the contrary part, bringing the file-leaders and bringers-up together into the midſt*. The following *Figure* demonſtrates the *body* in *motion*.

The Command is, *Front and Reer-halfe-files interchange ground.*

The Direction is, *Front-halfe-files, face to the Reere, then both diviſions move ſtraight forwards to the right.*

Front

Front.



Baſt. Counter-martch *in motion.*

Reere.

The way to performe this *motion* is as followeth. The *Front-half-files face-about*, paſſing forward to the *right* (being led by the *bringers-up* of the *front-half-files*) between the *Intervals* toward the *reere*; The *reer-half-files* at the ſame inſtant in like manner *martching* forwards, betweene the *Intervals*, on their right hands into the *front*, untill the *front-diviſion* have attained the places of the *reere*, and they contrariwiſe the *places* of the *Front*. For the *Reducement* of this *Counter-martch*, doe as much backe againe: Or if you would *reduce* it ſome other way, you may firſt make an intire *counter-martch* of *files*, and then *counter-martch front* and *reere* into the *midſt*; for under two *counter-martches* it will not be *reduced*. Now I will paſſe to ſhew *diviſionall Counter-martches* of *ranks* or *flanks*, The firſt ſhall be *Chorean*, as in the *Chapter* following. *The reducement.*

CHAP. LII.

Of Counter-martching the flanks (or wings) into the midſt of the Battell.

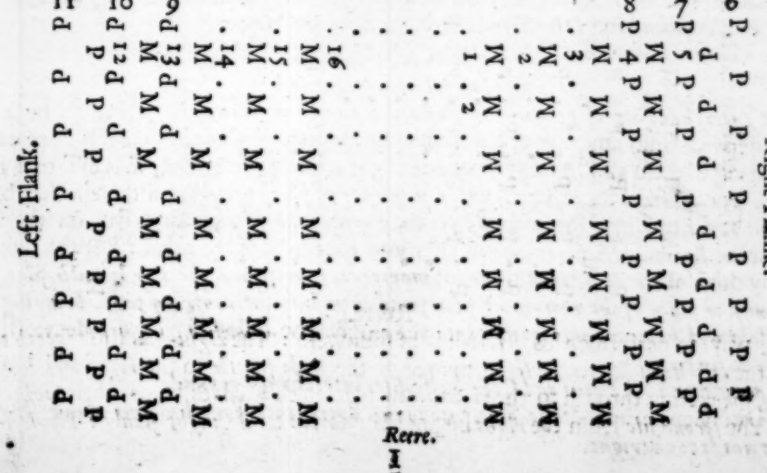
THis *Chorean counter-martch* of the *Wings* (or *flanks*) into the *midſt* is ordinarily uſed when the *Commander* would bring the light armed into the *midſt* of the *battell*, to ſecure them from the incurſions of the *Horſe*. It is a *Motion* to dangerous to meddle withall in the eye of the Enemy, although the Souldiers be expert; but by no meanes to be thought upon in the field, amongſt the untrained and unskillfull. This *counter-martch* performes the *Motion* on the ſame ground. The *Figure* followeth.

The Command is, *Counter-martch your flanks into the midſt.*

The Direction is, *Face to the Right and Left.*

Chorean,

Front.



The *command* being given, *the whole body faceth to the right and left by diviſion, the outtermoſt files by this facing becomming ranks, every man in the right-hand-file, being a leader to his halfe-ranke file-wiſe, and ſo likewiſe in the left-hand-file the ſame, then they counter-martch the right-flank to the right, the left-flanke to the left,* which you muſt alwayes obſerve to doe, and your flankers will meet juſt in the *midſt* of your *Battalia*. Laſtly, having *faced* them to their *firſt-front*, the *counter-martch* is ended.

Note that upon the Counter-martching of Flanks into the midſt, the right-flank muſt alwais obſerve to turne to the right, the left-flanke to the left: for if they ſhould both turne off to the right, they will never meet right, if they turne off both to the left, it will be as bad.

To *reduce* them, they may either uſe the ſame *Counter-martch* againe, or any of theſe following *diviſionall counter-martches* of *Flanks*, (unleſſe it be that of *inter-changing of ground.*) The next ſhall be *Lacedemonian*: the Command and words of Direction are, as in the Chapter following.

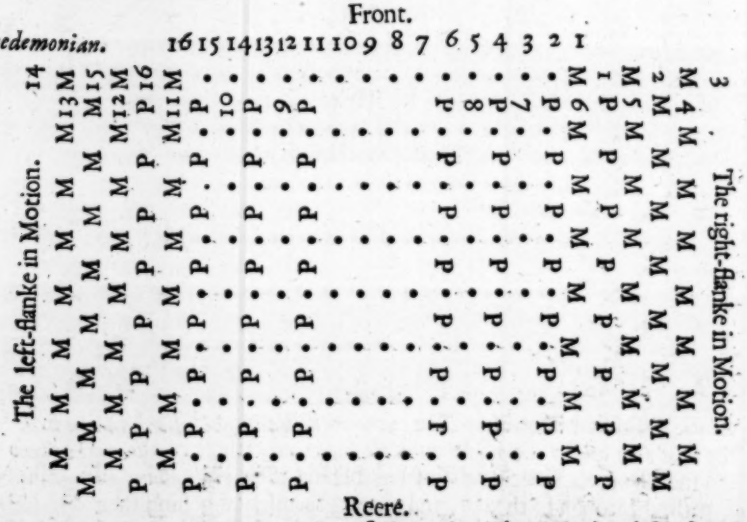
CHAP. LIII.

Of Counter-martching to take the ground on the out-ſide of the Flanks, the Aſpects outward.

THis *Lacedemonian Counter-martch of halfe-flanks or ranks, makes ſemblance of charging on and iſſuing forth upon both flanks, but leaves a large waſte diſtance of ground, un-occupied between the two out-moſt Files, or midſt of the Battaile.* The Command and Figure followeth.

The Command is, *The out-moſt file of each flanke face outward, the reſt paſſe through to the right and left, placing your ſelves before your out-ſide men.*

The Direction is, *Face to the right and left.*



The way to performe this *Motion* is as followeth: The *right-hand-file faceth* to the *right*, the *left-hand-file* to the *left*; the reſt of the *Body faceth* to the *right* and *left*, the *right-flank* paſſing through to the *right*, and placing themſelves before their *right-handmen*: The *ſecond file* from the *right* begins the *Motion* on the *right-flanke*: The *left-flank* in

in like manner paſſing through to the *left*, and placing themſelves before their *left-hand-men*: The *ſecond file*, accounting from the *left*, begins the *Motion* on the *left-flank*: But you muſt note, that the *files* become *ranks* with the *facing*.

For the *Reducement* of this *Figure*, if you will firſt *face* them to their *proper-Front*, you may then command *the two in-moſt files ſtand, the reſt paſſe through to the right and left inward, and take their places*: Or, if you pleaſe, make uſe either of a *Choreau*, or a *Macedonian Counter-martch* of *Ranks* by *diviſion*, and with a *facing*, and *cloſing* their *diviſions*, they will be perfectly *reduced*. *The Reducement.*

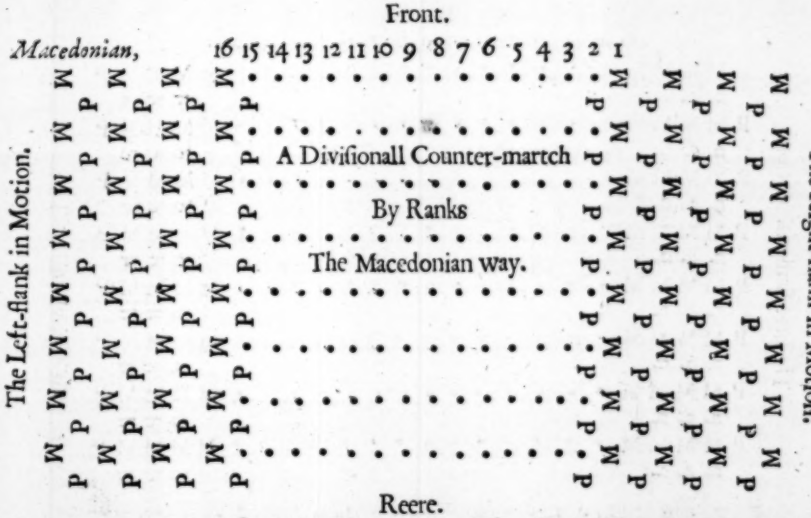
CHAP. LIV.

Of Counter-martching to take the ground on the out-ſide of the Flanks, and to direct their aſpects inward.

THis *diviſionall* Macedonian *Counter-martch*, differeth little from the *Counter-martch* of the laſt Chapter, except it be in the *alteration* of the *aſpect*; for whereas the laſt *Counter-martch* turned the *Fronts* of each *flank* outward, this contrariwiſe directeth them inwards, cauſing each *flank* to confront the other in *oppoſition*. The Command and Figure are as followeth.

The Command is, *The out-moſt file of each flank face inward, the reſt paſſe through to the right and left, placing your ſelves behind your out-ſide men.*

The Direction is, *Face to the right and left.*



The *Motion* is thus performed: The *outer-moſt file* of each *flank faceth inward*, the reſt of the *Body faceth* to the *right* and *left outward*; thoſe of the *right-flank* paſſing through to the *right*, and placing themſelves behind their *right-hand-men*; thoſe of the *left-flank* paſſing through to the *left*, and placing themſelves behind their *left-hand-men*: The *Motion* is begun by the *ſecond file*, from each *flank*. I might here ſhew theſe *Counter-martches*, beginning their *Motion* from their *middle-moſt files*; but I am willingly ſilent, hoping that theſe may ſuffice to the curteous, not much forcing my ſelfe to give ſatisfaction to the curious. For the *reducement* of this *Counter-martch*, having *faced* them to their *firſt-Front*, you may, if you pleaſe, command the *two inner-moſt files to face outward*, *The Reducement.*

the reſt paſſe through to the right and left inward, placing themſelves behind their right and left-hand-men; which being done, the whole *Body* will ſtand *faced* to the *right* and *left outward*; then being *faced* to their *Leader*, they are *reduced*. If you would *reduce* it by ſome other way, you may make uſe either of the *Counter-martch* which is next before, or of that which next followeth, or of any other *Diviſionall Counter-martch* of *Ranks* (which doth not *interchange ground:*) Our next two which follow, will be *Baſtard Counter-martches*; with the which wee will conclude this our *fourth branch of Diſcipline*.

CHAP. LV.

Of taking the ground on the out-ſide of the flanke, not altering the aſpects.

THis *Diviſionall Baſtard Counter-martch produceth the ſame effect which the other two next before it wrought, onely differing in the aſpect; for the* Lacedemonian *turned the aſpect outward, the* Macedonian *turned the aſpect inward, and this keeps the aſpect ſtill directed the ſame way*. He that knowes every way, may, when time ſerves, make uſe of thoſe wayes which are moſt neceſſary and ſutable to his preſent occaſion; and the Proverb ſaith, *Knowledge is no burthen*. The *Command* and *Figure* are as followeth.

The Command is, *The out-moſt file of each flanke ſtand, the reſt paſſe through to the right and left, and place your ſelves on the out-ſide of your right and left-hand-men.*

The Direction is, *Face to the right and left.*

Front.

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Reere.

The way to performe this *Counter-martch* is as followeth: (According to the *Command*) the *out-moſt file* of each *flank ſtands*, the reſt of the *Body faceth* to the *right* and *left outward*, the *right-flank* paſſing through to the *right*, the *left-flank* to the *left*; thoſe of the *right-flank* placing themſelves on the *out-ſide* of their *right-hand-men*: in like manner, thoſe on the *left-flank* placing themſelves on the *out-ſide* of their *left-hand-men*.

The reducement. It may be *reduced* either by any of the fore-going *Diviſionall Counter-martches of Ranks*; or elſe, being *faced* to any of the *flanks*, then the *ranks* become *files*; and by *diviſionall Counter-martches* of *files*, you may *reduce diviſionall Counter-martches* of *ranks*; or by *ranks*, *files*: onely you muſt obſerve ſome *facings*. Yet for this *Figure*, if you pleaſe,

command

command the two inner-moſt files ſtand, the reſt face to the right and left inward, and ſo march into their places. The next ſhall be a *Counter-march* of *Interchanging of flanks.*

CHAP. LVI.

Of Interchanging ground by the Flanks, and bringing the inner-moſt files of Pikes to become the out-moſt Ranks.

THis *Exchanging of Flanks* is a *Baſtard Counter-march*, but differing from all the other *Diviſionall Counter-marches* of *Ranks*; for this *transferres* the *right-flanke* into the place of the *left*, and the *left* into the place of the *right*. It is very apt to receive a *Charge* from the *Horſe*; for as ſoon as they ſhall be commanded to *interchange* their *flanks*, they *face* to the *right* and *left inward*, and then the *inner-moſt files* of *Pikes* begin the *Motion*, the reſt of each *flank following orderly file-wiſe*, the *Pikes porting* ſo ſoon as they begin to *move*, and *charge* as they ſee occaſion. If need be, the *Pikes* may *charge* at the *foot*, and the *Muſquettiers give fire over them.* If any object, that the *Pikes* will have too *large a diſtance*, they may *cloſe* at their own pleaſure, ſo ſoon as they have *paſt through.* The *Command* and *Figure* are as followeth.

Note that, if you pleaſe, you may paſſe the Pikes alone thorow, and let the Muſquettiers ſtand: But then there will be a large diſtance between the Muſquettiers in the midſt.

The Command is, *Interchange Flanks.*

The Direction is, *Face to the right and left inward, and march.*

For the *Reducement*, you may, if you pleaſe, *interchange ground* again: nevertheleſſe, if you would *reduce* it by ſome other way, *Counter-march* your *flanks* into the *middeſt*, and then an *intire Counter-march* either of *Rank* or *File* will *reduce* them.

I might have further enlarged my ſelfe upon this ſubject, both in *Command* and *Figure*; but it may be that ſome will find fault with theſe which I have already penned, concluding them for *nicities*, and for no *ſervice*; becauſe they cannot preſently apprehend for what uſe or ſervice they may be fit. Notwithſtanding, I would intreat ſuch (if any ſuch happen to be my over-lookers) that they would ſuſpend their cenſures, untill they have fully informed their judgements. Yet thus much I will conclude with them, that [a] *Counter-martches* might the beſt be ſpared of all the *Motions*, as being leaſt beneficiall to this our *Moderne Diſcipline:* And yet, to very good uſe many of them might ſerve, if our Souldiers were well practiſed in them. Nevertheleſſe, ſuch is the wilfull ſtupidity of the times, that many good and uſefull things are diſreputed, and accounted of no uſe, becauſe the Souldiers, wanting skill, cannot performe them as they ought; which, would the *Officers* take more paines, by often inſtructing their Souldiers, the hardeſt *Motions* would become facile and eaſie. And to ſay truth, the greateſt fault is [b] want of skill in thoſe which ſhould give inſtruction to others: and yet they will not ſtick to carp at ſuch as ſhall ſhew more than they; concluding ſuch things

[a] *Counter-martches leſſe uſefull in the modern Diſcipline. Practice brings perfection.*

[b] *The ignorant have been always the greateſt oppugners and traducers of the skilfull.*

for ſuperfluous and improper, which they themſelves doe not rightly underſtand. But leſt I be taxed for digreſſion, I will conclude this Branch of *Diſcipline* with theſe few lines following.

Some burthened are with more command then skill,
Which had they power suting to their mind,
You then should see reason inthrall'd to will,
Nor any 'bove their knowledge should you find;
For rather then they 'l study to learn better,
They wish all wanting, none to know a letter.

So be there many Officers in Bands,
That neither know themselves, nor care for those
That skilfull are in Postures, and Commands;
Nor are they carefull which end fore-most goes:
They think, to dice, to drab, to sweare and swill,
Is skill enough for them, learn more that will.

And if that any man more forward be,
For to instruct the Souldier (as is fit)
With such a fellow they cannot agree;
Hee is vain-glorious, strives to shew his wit:
They will be sure to quarrell and deprave him,
And in their cups, perhaps, they 'l———

Such honest hearts as spend both meant and time,
To practise others for their Countries good,
Why should this good be counted for a crime,
To those that for their Prince would spend their blood?
That Country sure will best be kept from harmes,
Whose Subjects pleasure take to practise Armes.

But on this subject I 'l no longer bide,
Of Counter-martches here I 'l take my leave.
To shew the Wheelings next I shall provide,
Which followes next of course, as I conceive.
And though with Verse my Counter-martches close,
Beginning Wheelings, I returne to Prose.

CHAP. LVII.

Of Wheelings, their kinds and uſes, with their ſeverall words of Command.

THe next Branch ſpringing from this *Military root*, is *Wheelings*: which are of *two kinds*, viz. *Wheelings Angular*, and *Wheelings on the Center*. Alſo be pleaſed to take notice, that all of them are either *intire* or *diviſionall*: The uſe of *intire Wheelings* is, to *turne the aſpect of the Front-proper to the right, to the left, or reere; either for the gaining of the Wind, Sunne, or ſome ſuch like advantage*; or to *confront the Enemy with their beſt Souldiers*. Moſt of the *diviſionall Wheelings*, being indeed more properly *Doublings*, either *extending* the *length* or *depth* of the Battell. Notwithſtanding, becauſe I would not be taxed with *innovation* or *alteration*, I have, according to the uſuall received way, placed them amongſt the *Wheelings*: and now I will ſhew their words of *Command* or *Direction*. But before I enter upon them, give me leave to lay down an obſervation or two, for the better inſtruction of the Souldiers in their *Wheelings*. The firſt is, *That before you enter upon your Wheelings, you cloſe both ranks and files to their Order; which is, three foot both in rank and file.* The other, *That upon all Wheelings you muſt be ſure to obſerve your Leader, and follow him, keeping your due diſtance; your Muſquettiers being all either poyſed or ſhouldred, your Pikes ought to be advanced.*

Moſt of the diviſionall Wheelings are doublings.

Note that the diſtance for Wheelings ought to be three foot between rank and file.

Note that upon the exerciſe of the Motions, whether it be Diſtance, Facings, Doublings, Counter-martches, or Wheelings, the Muſquettiers ought to be all upon one and the ſame Poſture, either poyſed or ſhouldred: the Pikes in like manner, either ſhouldred or advanced.

The words of *Command* are as followeth.

Wheele your Battell to the { *Right.* / *Left.* / *Right* / *Left* } *about.*

Wheele

Wheele your Battell to the { *Right* / *Left* / *Right* } *about* } *on the ſame ground.*
Left }

Wheele { *Off your Front by Diviſion.*
Your Front inward to the Reere.
Front and Reere into the { *Right* / *Left* } *Flanke.*

Wheele { *Your Flanks into the* { *Front.* / *Reere.* }
Both Flanks into the Front and Reere.
Your Front and Reere into both Flanks.

Obſerve that the firſt foure *Wheelings* are *Angular*, the next foure are *Wheelings on the Center*, or more properly, on the midſt of the *Front*: But all the firſt eight be *intire*; the latter eight are all *Diviſionall*. You may alſo obſerve, that every following *Wheeling* is a *Reducement* unto that which is placed next before it; and the *Wheeling* next before may *reduce* that next following: As, to *wheele* your *flanks* into the *Front*; if you *wheele* your *flanks* into the *Reere*, it is *reduced*: or, to *wheele Front* and *Reere* into both *flanks*, if you *wheele* both *flanks* into the *Front* and *Reere*, they are likewiſe *reduced* as before. *Each following Wheeling reduceth the former.*

For the laſt eight *Wheelings*, which are *Diviſionall*, I will prick for each of them his *Figure*. As for the firſt eight, which are *Intire*, I conceive them ſo eaſie to be underſtood, that I may ſpare the labour; yet I will endeavour to expreſſe them as well as I can in words. And firſt I will begin with the *Wheelings Angular*, and then with the reſt, according to their places. And therefore note, that when you are commanded to *wheele to the Right*, or *Left*, &c. and no other command added, it is to be underſtood an *Angular Wheeling*, and ſo to be performed.

CHAP. LVIII.

Of Wheelings Angular.

The Command is, *Wheele your Battell to the Right.*

THis is an *Angular Wheeling*, which transferres the *aſpect* or *countenance* of the *Front-proper*, into that part which was the *Right-flank*: It alſo removes the *Battalia* from the *ground* whereon formerly it ſtood, and placeth it on that part before the *Front*; the *hinge* or *axel-tree* of the *Motion* is the *Right-corner-man*, or *right-hand-file-leader*, who with a ſmall *motion* moveth to the *right*, every man, the more his place is remote from the *right-angle*, the more ſwift muſt be his *motion*; becauſe his *arch-quadrant*, or *ſemi-circle*, is larger in proportion: wherefore it muſt be the diſcretion of the *Officers* ſo to inſtruct their Souldiers, that when they *wheele* to any *hand*, they may ſo moderate their *motion*, that they on the contrary *flank* be not forced to run; but ſo orderly to contain themſelves, that they may ſtill preſerve an orderly and even *Front*. For the *Reducement*, *Wheele your Battell to the left*, in the like manner as it was *wheeled to the right*: nevertheleſſe, you muſt then note, that it will not bring you back into the ſame ground you formerly ſtood on; for it hath *advanced* you the length of your *Battalia* before the place of your *firſt-Front*. But if you would be *reduced* into the *ſame place*, or *plot* you firſt ſtood on, then *face your Battell to the right*, and being ſo *faced*, *wheele your Battell to the left*; which being performed, *face to the left*, and then they are compleatly *reduced*, both for *aſpect* and *place*. The next *Command* is, 1. *Obſerve the directions for Angular Wheelings.* 2. *Note the reducement to the firſt place and aſpect.*

Wheele

Wheele your Battell to the right-about.

3 This is alſo an *angular wheeling* and *transfers* the *aſpect* of the *front-proper*, towards the *reere*: It is to be performed in the ſame manner as the *wheeling* to the *right* was; only the *motion* is twice ſo much: wherefore there ought to be the more care had, that ſo the *motion* may be orderly performed: for by ſo much as every man is neerer or further off, from the *right-corner-man*, by ſo much the more *ſwift* or ſlow muſt he continue his *motion*, that ſo he may be ſure to keep ſtill *even* in *Rank* with his *right-hand-man*. This *Motion* being thus performed, your *Battell* will be removed from its former *ſtation*, taking in lieu thereof the ground *Diagonally* oppoſite to the *right Angle*.

Note that wheeling to the right about, will not be reduced by wheeling backe againe to the left about juſt into the ſame ground, if the wheeling be angular, but will be twice the length of the battell, removed to the right of your former ſtanding.

* 4. * To *reduce* theſe to their former *Aſpect*, *wheel* your *Battell* to the *left-about*, notwithſtanding the ground you formerly did poſſeſſe, will be twice the *length* of your *Battell* to the *left*, of your *left-flanke*; if you would *reduce* them as well to their firſt *ground*, as their firſt *aſpect*, *face* them to the *right*, and then *wheel* them to the *left-about*, which being done, face them to the *left*, and they are perfectly *reduced*, as at firſt. But the neereſt reducement of *aſpect* and *place* is; if you *wheel* to the *right-about*. Then *wheel* to the *right-about* againe for *reducement*. If to the *left-about*, then to the *left-about* in like manner.

CHAP. LIX.

Of wheeling on the Center.

The Command is, *Wheele your Battell to the right, on the ſame ground.*

5. *Wheelings on the ſame ground quicklier performed then angular wheelings, and in leſſe roome.* THis *wheeling* is by ſome called, *a wheeling on the center*; by others, *a wheeling on the ſame ground*. I cannot abſolutely maintaine it to be either, for that it onely *wheels about the midſt of the firſt ranke*. Neither may it rightly be termed a *wheeling on the ſame ground*, becauſe it loſeth ½ of the *ground* it formerly ſtood upon. This *wheeling* is quicker performed then the *angular wheelings*, and may be done in farre leſſe ground. For the *left-flanke* advanceth forward, ſtill wheeling to the *right*, the *right-flanke* contrariwiſe *facing* to the *left*; and ſo falling backward. If you have an odde File, then the *middle file-leader* muſt be the *center* or *axel-tree* of the *motion*: if you have an even number of files, then the *middlemoſt file-leader* from the left. But if your *wheeling* be to the *left*, then the contrary.

6. *The reducement.* This by ſome is called the *Prince of Orenges wheeling*. For the *reducement*, *wheel* your Battell to the *left*, on the ſame ground: and they are *reduced* as at firſt. Our next *Command* is to

Wheele your Battell to the right-about, on the ſame ground.

7. *The Reducement.* This *wheeling* is alſo a *wheeling on the Center*, or *midſt of the front*: and *transfers* the aſpect of the *front-proper* towards the *reere*, removing the Battell from the ground whereon it formerly ſtood, and placing it on the ground before the former *front*. It is performed after the ſame manner as the laſt, onely the *motion* is double ſo much as the other. In this *motion* on the *left-flanke*, every man is to obſerve his *right-hand-man*; and the *right-flank* muſt keep even after their *left-hand-men*, which become their *leaders file-wiſe*, untill they have attained their *ground*: after which, they face as before, making an *even front*. For the reducement, *wheel* your Battell to the *left-about* upon the ſame ground; and they will be reduced as at firſt. I will next ſhew the *diviſionall wheelings*, and intend to give to each of them his *figure*: wherby they may appeare the more eaſie to ſuch as doe not yet rightly underſtand them. The firſt ſhall be a *wheeling-off by diviſion*: as in the next Chapter.

CHAP. LX.

Wheeling-off the Battell by diviſion.

THis *wheeling-off by diviſion* in greater *Bodies*, may be uſefull to meet ſeverall enemies at one and the ſame time with the *Front of your Battalia*: and ſo conſequently with your

your *beſt Souldiers*. By this *motion* alſo the *Muſquetiers marching in Front*, may be *wheeled-off* by *diviſion* to *flanke* their *Pikes*: But if you would *wheele-off* your *Battell* by *diviſion*; and againe *conjoyne* them (when the *file-leaders* are come to the *reer*) then it brings all your *Muſquetiers* from the *flanks* to the *midſt* of your *Battalia*: and the *Pikes* on the *outſide* or *flanks*. If any queſtion the *depth* of the *number* of this *Figure*, I have *doubled files* to make the *Figure* more perfect, as you may perceive by the following *Figures*.

The Command is, *Wheele-off your Front by diviſion.*

First-Front.

Reere.

The way to performe this *Motion* is eaſie, for all the *file-leaders* of the *right-flanke*, *wheel-about to the right*: the reſt of each *file* following their *leaders*: the *file-leaders* alſo of the *left-flanke*, *wheeling-about* to the *left* in the ſame manner; and then *joyne* or *cloſe* their *diviſions*. This being done, if you would then *reduce* them, *wheele* them off again by *diviſion*, after the ſame manner; and they will bee as before. But if you would doe it ſome other way, make uſe of this *Wheeling* next following: which will alſo bring them as they were. The word of *Command* or *Direction* followeth as in the next Chapter.

Note the direction, the wheeling is angular, the motion to be performed, wheeling-about the out-moſt file-leader on each flanke.

CHAP. LXI.

Of wheeling the Front inward towards the Reere.

WHeeling your front inwards to the Reere, is here placed as a *Reducement* unto the preceding *wheeling*: and brings the *Musketiers* to the *flanks* againe. Nevertheleſſe if you would doe it, the Company being firſt *reduced*; then it brings the *Pikes* to bee the *flankers*. Some have conceived that it may prove uſefull at any time, when your *Reere* ſhall be too much *over-laid by the enemies Caval'rie*: having firſt gained ſome *hill-ſide*, or other place of *advantage*, for then by this *wheeling* of your *front inward* to the *Reer*, (which to the *enemy* will make ſhew of *diſbanding*, or *flight*: But to the contrary) your *Battell martcheth* towards *them* with a *ſetled* and *orderly body*, with all your *Muskettiers* in the *midſt*. In that order *firing* upon the *enemy*; the *Pikes* being the *Flanquers*: thereby *defending* the flanks of your *ſhot* from the *fury* of the *Horſe*. The *Figure* as in motion followeth.

The Command is, *Wheele your Front inward to the Reere.*

The Front.

This was the Front.

This *Motion* will hardly be well done, if your *body* hold to large an extenſion of *length*. But at what *depth* ſoever it is eaſie. The *Motion* is to be performed as followeth. The *right-hand file-leader*, with all the *leaders* of the *right-flanke advance forwards*, and ſo *wheele-about* to the *left*: every *file* ſtill keeping cloſe to their *right-hand-file*. The *left-hand file-leader* likewiſe, with all the *leaders* of the *left-flanke advance forwards*, and *wheel-about* to the *right*; every *file* of the *left-flanke cloſing cloſe to the left*. Thus the *out-moſt files* of each *flanke*, will meet and become the *innermoſt*: the *front* falling *perpendicularly* to the *reere*. For the *reducement* of this *figure*, you may if you pleaſe, either *wheel* them off to the *right* and *left* by *diviſion*: or elſe *wheel* your *front inward* againe to the *reere*. Theſe two laſt *wheelings* have been demonſtrated with their *files doubled*, wherby the *figures* might be the more perfect, but with men it would have been needleſſe: wherfore *double ranks* to the contrary *hand*, and they will be as at the firſt.

The Inſtruction how to performe the Motion.

The reducement.

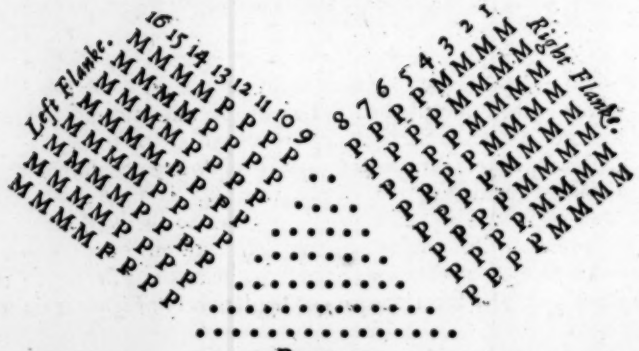
CHAP. LXII.

Of bringing the Flankes into the Front of the Battell.

The Command is, *Wheele your Flanks into the Front.*

The Direction is, *Follow your Leaders.*

Front.



Wheel your { Flanks / Wings / Front } into the { Front. / Front. / Battell. } Wheel your { Front / Front / Reere } into the { Midſt. / Center. / Flanks }

This

THis *Diviſionall Wheeling of the Flanks into the Front*, is properly a *Doubling*, performed by *wheeling*. It brings all your *Muſquettiers* from the *Flanks* into the *Front*. So that whereas this *Body* before could doe *execution* but with eight *Muſquettiers* at once, by this *Motion* they may poure on ſixteen *ſhot* together. If they were *deeper* before the *Motion* began, then it would bring the more hands to imployment. If upon ſome *paſſe* you ſhould be chaſed in the *Reere* by *Horſe*, by this *Motion* of *wheeling* your *flanks* into the *Front* you not onely ſecure your *Muſquettiers*, but alſo *barricado up* the *paſſage* with your *Pikes*; provided it be not above fifty foot over. Some call this a *wheeling on the Center*; becauſe they *wheele-about* the *middle-men* of the *Front*. But I rather conceive it an *angular*; becauſe, upon the firſt *motion* of *dividing*, every *Diviſion wheeleth about* his own *angle*, untill the *out-moſt file-leaders* of each *flank* meet together in the *midſt*. You may perceive how, by the figures of *number*, where the figure 1 meets the *number* 16, 2 with 15, 3 with 14, and ſo for all the reſt. Then, being *faced* to their *Leader*, every two *files* that meet, being now *joyned*, make one *rank*. There muſt be the like *order* and *decorum* kept in the *motion* of *wheeling* each *flank*, as I ſhewed in the inſtruction of *intire angular wheelings*. For *Reducement* of this *Motion*; *Wheele your flanks into the Reere*. Or elſe foure times the ſame; as I have ſeen ſome doe: although ſomewhat the further way about. Divers men are diverſly opinionated, concerning the beſt *word* of *Command* or *Direction* for this *Motion*: Theſe I have known uſed, which I have placed at the bottome of the *Figure*. And if any man like one better then the other, be it at his owne choice, either to uſe or refuſe, while I paſſe to ſhew the next *Wheeling*.

This Wheeling moſt properly a Doubling.

Sixteen abreſt allowing to each man 3. foot amounts to 48 foot.

The reducement.

CHAP. LXIII.

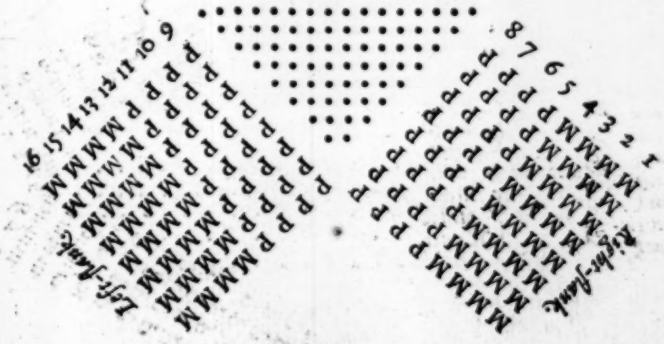
Of wheeling the Reere into the midſt of the Battell.

The Command is, *Wheele your Flanks into the Reere.*

The Direction is, *Face all about to the right, and follow your preſent leaders.*

Wheele your { Flanks / Wings / Reere } into the { Reere. / Reere. / Battell. } Wheele your { Reere / Reere / Front } into the { Midſt. / Center. / Flanks. }

First-Front.



Front-accidentall.

THis *Diviſionall wheeling* of the *Flanks* into the *Reere*, is alſo a *Doubling*, and performed as the other. And whatſoever might be ſaid in the behalfe of the *wheeling* of the

Upon all wheelings you muſt obſerve to follow your leaders; which muſt be underſtood, as well of thoſe which become leaders accidentally, (by reaſon of facings) as of thoſe which be the firſt & proper leaders. As in this wheeling for example, where the bringers-up are become the leaders of the motion.

Front into the *middeſt*, the ſame may be alſo ſpoken concerning the *wheeling* of the *Reere* into the *middeſt*: For this *Wheeling* brings your two *out-moſt files* to be the *firſt-rank* to the *Reere*; the *Bringers-up* of the *right* and *left-hand-files* meeting together: the *Bringers-up* of the *right-flank* meeting *face* to *face* with the *Bringers-up* of the *left-flank*. And ſo being *faced* to their *Leader*, they which before were compleat *files*, are now become *halfe-ranks*, either to the *right* or *left*. But you muſt note, that before you begin to *wheel*, you muſt *face* your *Body about* to the *Reere*; and then the *action* will be all one as if you *wheeled* your *flanks* into the *Front*. Wherefore I ſhall not need further to explaine it, having ſpoken fully to it in the precedent Chapter.

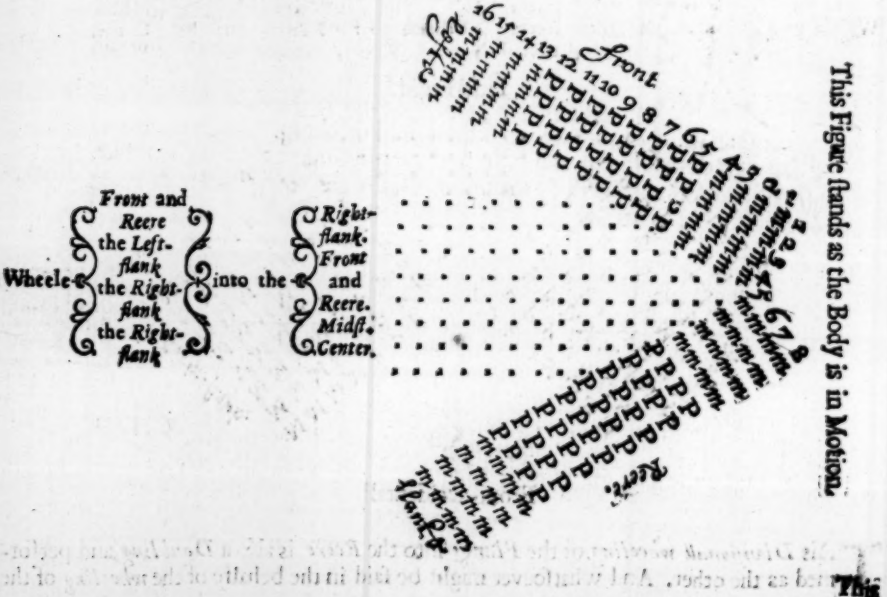
Note that the two middle-moſt Bringers-up are the hinges of this wheeling.

For the *Reducement* of this *Wheeling*; the *Commander* being at his *Front-accidentall*, may command them to *wheele* their *wings* into the *Reere*, and ſo paſſe through to that part where his *proper file-leaders* are; and then *face* them to him, and they are *reduced*. Or elſe, when hee hath paſt through to the *Reere*, and *faced* his *Company* to him, then his *Pikes* being fore-moſt, let him *wheele* his *flanks* into the *Front*; when being *faced* to their *Leader*, they are *reduced*. For this *Motion* there are alſo divers and ſeverall *words* of *Command*; And becauſe it may be, that ſome will better approve of ſome of the other *words* of *Command*, then of this that I have made uſe of, therefore I have placed others in the margine, that ſo any that will may take their choice, while I paſſe to ſhew the next *Wheeling*: Whoſe *word* of *Command* and *Direction* you ſhall find over the *Figure* of the next Chapter.

CHAP. LXIV.

Of wheeling the right-flank into the midſt of the Battell.

The Command is, *Wheele Front and Reere into the right-flank.*
The Direction is, *Face all to the right.*



This

THis *Diviſionall wheeling* of the *Front* and *Reere* into the *right-flanke*, doth *quadruple* the *depth*; as may appeare by this *Figure*; which before the *Motion* began contained but 8. in *depth*, but this *wheeling* being perfected, makes them 32. namely, if you direct the *aſpect* of the *Body* either to the *right* or *left*, after the *Motion* is ended. If you obſerve this *Wheeling*, it doth divide the *Muſquettiers* on the *left-flanke*; the one halfe of them *wheeling* to the *Front*, the other halfe to the *Reere*: all the *Muſquettiers* of the *right-flank wheeling* together into the *midſt*. The *Pikes* are likewiſe divided; thoſe that were the *Front-halfe-files* are in the *middeſt* of the *Front-diviſion* of *Muſquettiers*, and thoſe which were the *Reere-diviſion* of *Pikes* are in the *middeſt* of the *Reere-diviſion* of *Muſquettiers*. This *Wheeling* may be to ſingular good uſe for the making of ſome *formes* of *Battell*. But I forbear now to treat concerning *Figures* and *formes* of *Battell*, reſerving them to be ſpoken of in their due places; and come now to ſhew the way how to performe the *Motion*. The *Command* therefore being given to *wheele Front and Reer into the right-flanke*, then the firſt thing the Souldiers are to doe, is to *face* to the *right*; that done, they *wheele* together about the 4. and 5. men in the *right-hand-file*; which is the *halfe-file-leader* to the *Front*, and *halfe-file-leader* to the *Reere*. You may eaſily perceive how by the *Figure*; where the *Reere-diviſion wheeleth* to the *left*, and the *Front-diviſion* to the *right*, untill the *Bringer-up* of the *right-hand-file* meets in the *midſt* with his *file-leader*: the *ſecond* with the *ſeventh*; the *third* with the *ſixth*; the *fourth* with the *fifth*, &c.

Note that if the length of your Battell be double the number of your depth, as in this Figure, then this wheeling of Front and Reere into the Right or Left-flank, doth quadruple their former depth. If the number were equall in length and depth, then by this wheeling they would be but doubled. If the number of your length exceed more then double your depth, by ſo much the more will the extenſion of the depth be beyond quadruple, &c.

For the *Reducement* of this *Figure* of *Wheeling* there are many wayes, according as the *Body* may be *faced*: But firſt conceive them *faced* the ſame way as they were before this *Motion* began; and then the *wheeling* of *Front* and *Reere* into the *left-flank* will *reduce* them, when they are *faced* to their *Leader*. Or, if you will, *face* them that way which they *wheeled* in the *Motion*, which was to the *right*; then *wheele your flanks* into the *Reere*; when being *faced* to their *proper-front*, they are *reduced*. And ſo, in like manner, ſhould you *face* them to ſome other part, they might be otherwiſe *reduced*. The next *Wheeling* will be the ſame to the *left*, as this is to the *right*; where, notwithſtanding that the *Motion* be all one, yet it ſhall differ in the *placing* of the *men*. For before I begin the *Wheeling*, I will paſſe through all the *Muſquettiers*, from the *right-flank* to the *left*; by which meanes, the *Body* will ſtand as appeareth by the *ſquare Figure* following under *A*. From whence I will begin the next *Wheeling*.

The Reducement.

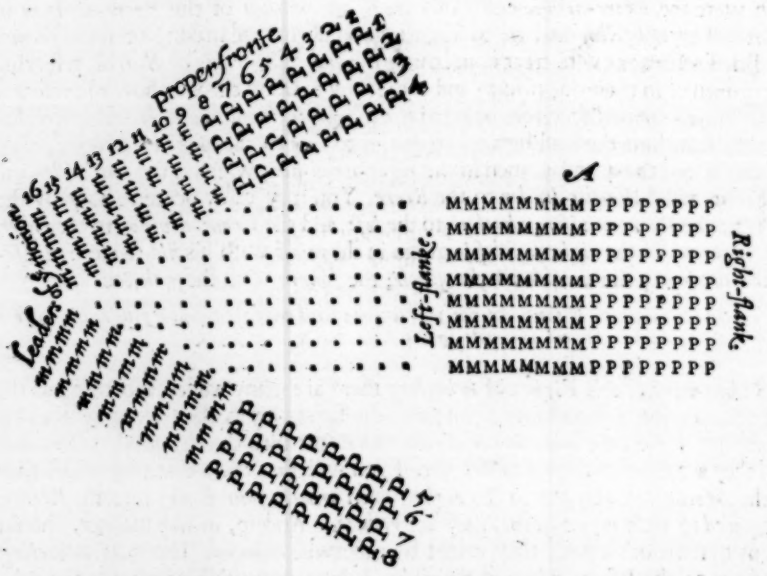
Wheelings may be diverſly reduced, at the diſcretion of the Commander.

CHAP. LXV.

Of wheeling the Left-flank into the midſt of the Battell.

The Command is, *Wheele Front and reere into the Left-flank.*

The Direction is, *Face all to the left, and move after your preſent leaders.*



THis *Diviſionall wheeling* of the *Front* and *Reere* into the *Left-flank*, is in like manner a *Doubling of the depth*. For the nature of the *Motion*, it is altogether like unto the *Wheeling* next before; differing onely in the *Flank*; and after that the *Body* is *faced* to the *left*, the *wheeling* is to be performed as *wheeling* the *Flanks* into the *Front*. But by reaſon that before the *Motion* began all the *Pikes* were on the *right-flanke*, by this *wheeling* they are brought to the *Front* and *Reere*. For the *aſpect* being directed the ſame way it was before the *Command* was given, the *depth* will be 32. as in the other *Figure*.

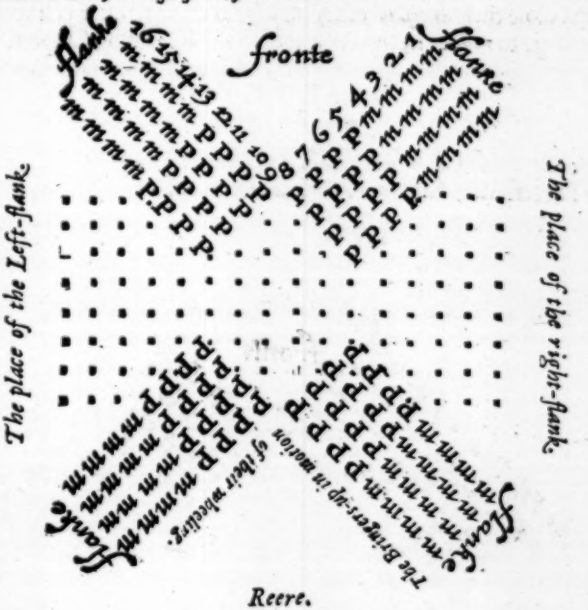
The reducement. For *Reducement*, the ordinary way is to *wheele* the *Front* and *Reere* into the *right-flank*. Or if upon any occaſion you have *faced* your *Body* to the ſame way they have *wheeled*, (which was to the *left-flanke*) and would give your *Command* from thence, then let them *wheele* their *flanks* into the *Reere*. This done, the *Commander* paſſing to his *firſt-Front*, and *facing* them to him, they are as before this laſt *Wheeling* began. Then cauſe the *foure files* of *Muſquettiers* to *face* to the *right*, and to paſſe through to their places. Laſtly, doe but *cloſe* them to their due *diſtance* in *rank* and *file*, and they are perfectly *reduced*.

CHAP.

CHAP. LXVI.

Of wheeling Front and Reere into the midſt of the Battell.

The Command is, *Wheele both Flanks into the Front and Reere.*
The Direction is, *Halfe-files, face-about to the Reere.*



Reere.

THis *diviſionall wheeling* of both *flanks* into the *Front* and *Reer*, doth *double* the *depth*; making them from 8. *deep*, 16. It doth likewiſe transferre the *Muſquettiers* from the *flanks* into the *Front* and *Reere*; making a *diviſion* between the *Front-halfe-files* and *Reere-halfe-files*: So that of one *Body*, *flanks* with *Muſquettiers*, it maketh two; each having their *Muſquettiers* in *Front*.

This *Figure*, and moſt others, (as well *Facings*, *Doublings*, *Counter-marches*, and *Wheelings*) are here ſet forth as the *motion* of each preſents it ſelfe in the *execution*; few of them being ſhewen as they be when they are *executed*: And I conceive it the better way, not only for *direction*, but alſo for the *apprehenſion* of the Learner, to ſhew the work as it is in *doing*, rather then abſolutely *performed*.

For the way how to performe this *wheeling*, take theſe directions following. The *Command* being firſt given, as afore-ſaid, the firſt thing the Souldiers have to doe is, for the *halfe-files to face-about*, and then the *Front-halfe-files* and *Reer-halfe-files wheele* at one and the ſame time; the *Front-diviſion wheeling* about their two *inner-moſt file-leaders*, which are figured with the numbers of 8. and 9. untill the *file-leaders* of the *right-flank* meet together in the *midſt* with the *file-leaders* of the *left-flank*: as you may eaſily perceive by the Figure ſhewing the *motion*; the reſt of their *diviſions* orderly following them. The *halfe-files* alſo being *faced about*, the *Bringers-up* in like manner *wheele* together; being now the *leaders* of the *motion*, in the *Reere*, as you may perceive. This being done, if you pleaſe, you may *face* them all to their *Leader*, (whom ſuppoſe to be at the *place* of his *firſt-Front*) and then command them to *cloſe* their *Diviſions*; which being performed, all

The direction to this wheeling.

your

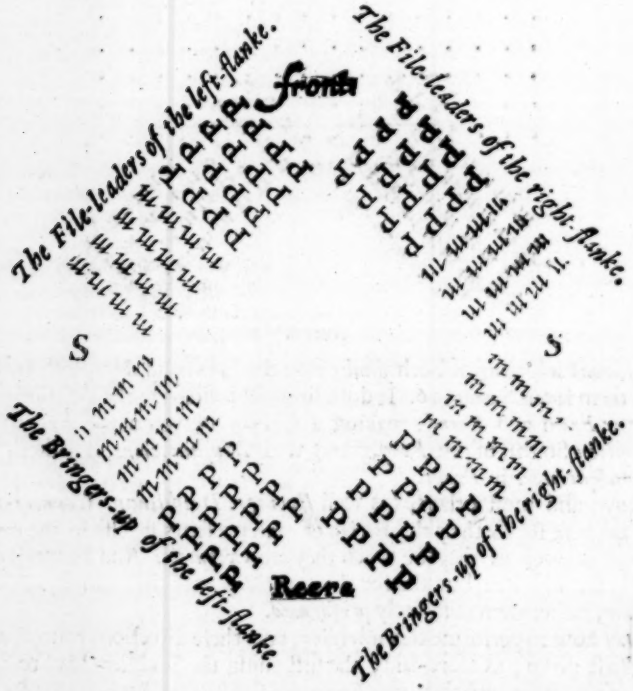
your *file-leaders* are in the two *inner-moſt files* of the *front-diviſion*, *file-wiſe*, and all the *bringers-up* in the *reer-diviſion* of the ſame *files*.

For the *reducement* of this *wheeling*, if you will, *face* them to either of the *flanks*, and command them to *wheele* both *flanks* into the *front* and *reere*, then *face* them again to their *proper-front*, and cloſe their *diviſions*, they will be as at firſt. But if you would make uſe of ſome other *wheeling*, to *reduce* it, then take this in the following Chapter.

CHAP. LXVII.

Of wheeling the flanks into the midſt of the Battell.

The Command is, *Wheele front and reere into both flanks.*
The Direction is, *Face to the right and left, and wheel after your preſent leaders.*



THis *diviſionall wheeling* of the *front* and *reere* into both *flanks*, may alſo be termed a *doubling of the depth*: by reaſon that from 8. *deep*, *it maketh double the former number*. By this *motion* alſo, the *Muskettiers* which were before *flankers*, are now transferred into the *midſt*, betweene the *front* and *reere* of the *Pikes*. And whereas in the other *figure*, the *wheeling* was about the two *middle-moſt file-leaders*, and *bringers-up*; this *wheeling* contrariwiſe, is about the two *halfe-file-leaders*, of the *out-moſt files* on each *flanke*. In the other *wheeling*, the *file-leaders* and *bringers-up* made the *innermoſt files*, in this the

outermoſt

outer-moſt file of each *flank*, as you may eaſily perceive by the *figure*. This *motion* being performed, leaves a large *Intervall* (or *diviſion*) from *front* to *reere*, between the *flanks*: if the Commander paſſe into the *midſt*, between each *diviſion*, and *face* them all to him; cauſing them to *cloſe* their *diviſions*, and march forth into his firſt place, (directing their *aſpects* the ſame way) then will the *Pikes* be in the *front* and *reere*.

For the *reducement* of this *Figure* (of *wheeling*) to its former *poſture*; you may *face* the *body* to one of the *flanks*. Which being done, command them againe to *wheel front and reer into both flanks*, when being *faced* to their former *front*, and having *cloſed* their *diviſion*, they are reduced. Nevertheleſſe if you would make uſe of ſome other *wheeling* to *reduce* them, then *wheele both flanks* into the *front* and *reere*, and they will be as at firſt, after that they have *faced* to their *Leader*, and *cloſed* their *diviſions*. Thus as briefly, and as plainly as I could, have I run through the ſeverall *motions* and *grounds*, for the *diſciplining* of a *foot-company*. And although I neither can, nor hope to give ſatisfaction to all; yet I ſhall intreat the better qualified, that where I am wanting, there they will ſupply my defects with their goodneſſe. Or if it ſo happen, that I undergoe the cenſure of needleſſe ſuperfluity: I would have ſuch to make uſe of ſo much of it, as they ſhall thinke fit for their owne turnes, and leave the reſidue unto ſuch as may have opportunity for to uſe it.

The Reducement.

THus courteous Reader have I paſt the grounds,
And various motions of the Infantery,
Where thou maiſt gaine the skill, coſt others wounds,
Though from a young one of th' Artillery.
Read and conſider, if thou nothing gaine,
I aske as little from thee for my paine.

If thou the Diſtances doſt well peruſe,
The ſeverall Facings, and the Doublings too,
The Counter-marches which of courſe enſues,
And then our Wheelings which we laſtly do:
Theſe being practis'd, learnd, and underſtood,
The benefit turnes to thy Countries good.

Theſe like the Vowels are in number five,
With which we ſpell all words that can be nam'd:
So with theſe motions we all formes contrive,
And from theſe grounds are all our Figures fram'd.
Then frame thou no excuſe, but learne to know them.
And with as free an heart as I doe ſhow them.

Now next of all I ſhould ſome firings ſhow,
But leſt perhaps I hold you over-long,
I thinke it fit ſome reſpite to beſtow,
For feare our Souldiers thinke I doe them wrong.
So pleaſe the Reader but to pauſe the whiles,
And ſee our Leaders exerciſe their files.

For now each Leader is ſo courteous growne;
He ſtrives to bring another to his place,
But they as modeſtly would keepe their owne,
And each prefers his follower to the grace.
So pleaſe you then but winke at the digreſſion,
And you ſhall ſee each Leader by ſucceſſion.

CHAP. LXVIII.

Of making men file-leaders ſucceſſively, the files being eight deepe.

EVery Man may be made *file-leader* of his owne *file ſucceſſively*, according to his *firſt ſtanding*, as well and eaſily in *great bodies*, as by *ſingle files*. Yea and with the ſame words of Command and Direction, as you may perceive by the following Table, where the Figures of *number* ſhew the ſucceſſion of each mans *leading*. The words of *Command* which produce each *leader*, being placed in the Columes of the following Table. In the firſt Colume, the *file* ſtands each man in his right place; with his *proper file-leader* in *front*. The reſt of the *files* demonſtrating the *places* of the men, according to their *ſtanding* upon the making of every ſeverall *file-leader*. The *Commands* are *figured*: which produce the like *leaders*,

The Front of each file as they come to be file-leaders ſucceſſively, with the numbers and places of the men, figured according to their proper places they firſt ſtood in.

8	7	6	5	4	3	2	1
7	8	5	6	3	4	1	2
6	5	8	7	2	1	4	3
5	6	7	8	1	2	3	4
4	3	2	1	8	7	6	5
3	4	1	2	7	8	5	6
2	1	4	3	6	5	8	7
1	2	3	4	5	6	7	8

The ſeverall words of Command, which produce each File-leader.

						Ranks Files } to the right double } makes the File-leaders, and half-file-leaders ſtand; the reſt paſſe thorow to the right, and } makes the place your ſelves before your Leaders.	
					Ranks Files } to the Left double, } makes the First Rank ſtand; the reſt paſſe thorow to the left, and place your ſelves before } makes the your leaders,		
				Ranks Files } to the Right double, makes the Counter-march Front and Reere into the midſt, and then face to the hiſt } makes the Front,			
			Ranks, Files, } to the Left double } makes the Then face about, or Counter march the front into the Reere, and they are reduced.				
1	8	7	6	5	4	3	2

The firſt are the *proper leaders* of the *files*. For to make the ſecond *leade*, if there be but one *File*, then, *file, ranke two to the right*; if there be more *files*, then, *ranks to the right, double*, and *files to the right, double*. By which meanes the ſecond man is become *leader* of his *file*; every man being diſpoſed, as you may perceive by that *file*, whoſe *leader* is the *figure* of 2. To make him that was the third man, *leader*, let *file-leaders and half-file-leaders ſtand*, and *the reſt paſſe through to the right, and place themſelves before their leaders*. Thus will the *file* ſtand like that, led by the *figure* of 3. For to make him that was the fourth man *leader*;

leader; *Ranks to the left, double*; and, *files to the left, double*: whereby the *file* will ſtand like that led by the figure of 4. For to make him that was the fifth man *leader*, let the *firſt ranke ſtand*; *the reſt paſſe through to the right, and place themſelves before their leaders*: by which meanes, the *file* will ſtand like that led by the figure of 5. For to make him that was the ſixth man *leader*, *Double your Ranks to the left*, and, *Files to the left, double*: and then the *file* will ſtand like the *file* led by the figure of 6. For to make him that was the ſeventh man *leader* of the *file*, *Counter-march Front and Reere into the middeſt*, and *place them to the former Front*: whereby the *file* will ſtand like that led by the figure of 7. For to make him that was the eighth man *lead* the *file*, *Ranks to the left double*, and, *Files to the left double*: and the *file* will ſtand like that led by the figure of 8. For to *reduce* them, *Cauſe the firſt-rank to ſtand, the reſt to advance forwards to the right, placing themſelves before their leaders*. *The Reducement.*

CHAP. LXIX.

Of making men File-leaders ſucceſſively, the Files being but ſix deep.

SOme will be inquiſitive to know for what uſe the *making of File-leaders by ſucceſſion* ſerveth; or whether it be not a meere Curioſity? To which I thus anſwer: That it is not onely *pleaſant*, but *profitable*. *Pleaſant* to the *leader* of a *file*, who having ſufficiently exerciſed his *file* in *Poſtures*, to give ſome time of reſpite or delectation for the recreating of their (almoſt) tired ſpirits, brings each man, *ſucceſſively*, to *lead* the *file*, by *proper words of Command*: And laſtly, *reduceth* each man to his *former ſtanding*. It muſt needs be profitable, and much available in *Diſcipline*, when the skilfull *Commander* can thereby (with much eaſe) *change* and *interchange*, bring what *ranks* hee pleaſeth to *lead* in *Front*, and *exchange* them afterwards for others; yea, and laſtly, at his owne pleaſure, bring the *proper File-leaders* againe into their places. This following Table ſhewes each mans ſeverall place, and how they ſtand upon every mans comming to be made *File-leader*; ſtill ſuffering alteration, according to their various *leaders*; demonſtrated here by the figures of *number* (which are placed at the bottome of thoſe Columnes wherein are writ the *words* of *Command*:) Underſtand that thoſe words over the figure of 2. are to make the ſecond man *File-leader*; thoſe words over the figure of 3. make the third man *leader*: And ſo forwards to the reſt, as in the Table.

The Front and ſtanding of each File as they come to be Leaders.

6	5	4	3	2	1
5	6	5	2	1	2
4	3	1	6	4	3
3	4	6	1	3	4
2	1	2	5	6	5
1	2	3	4	5	6

The words of Command which produce each ſeverall Leader.

1	File-leaders ſtand; the reſt paſſe thorow, and place your ſelves before your leaders.	Ranks, Files, } to the right double.	6	5	Ranks to the left double, and files double your depth to the left.
4	File-leaders ſtand; the reſt paſſe thorow to the right, and place your ſelves before your leaders.	Halfe-files, double your Front to the right, and files to the right double.	3	2	Ranks, Files, } to the left double.

The *firſt man* is the *leader* of the *file*. For to make the *ſecond man* leader, Command, *File, rank two to the left.* If there be more *files* than one, *Ranks to the left, double*; and *files to the left, double*: which makes the *ſecond man* leader; every man in the *file* being diſpoſed, as you may perceive by that *file* led by the figure of 2. For to make him that was the *third man* leader, Command, *Halfe-files, double the Front to the right*; and, *Files to the right, double*: by which means, the *file* will ſtand like that led by the figure of 3. For to make him that was the *fourth man* leader; *Face to the Reere*, and then hee leads. But if you will keep the ſame *Front*, command the *firſt-rank to ſtand, the reſt to paſſe through to the left, placing your ſelves before your leaders*: Thus will the *file* ſtand like that led by the figure of 4. For to make the *fifth man* leader, command, *Ranks to the right, double*: and, *Files to double their depth to the right intire*: by which meanes, the *file* will ſtand like that led by the figure of 5. For to make the *ſixth man* file-leader, cauſe *Ranks to the left, double*; and *Files to the left, double*; and then the *file* will ſtand like that led by the figure of 6. For to *reduce* them, there needs no more but, *Face to the Reere*: notwithſtanding, if you would have the *Front* the ſame way, the Command is, *Firſt-rank ſtand*; *the reſt paſſe forwards to the right, placing your ſelves before your leaders.*

The reducement.

For to make ſix men ſucceſſively Leaders, by ſix words of Command, beſides Facings.

The firſt is *leader*: For the ſecond file, *Rank two to the left*, and, *Files to the left, double.*

For

For the third, *Counter-martch Front and Reere into the midſt, and face to that part which was the Reere.* For the fourth, *Face-about to the right.* For the fifth, *Counter-martch Front and Reere into the midſt, and face to that which was the Reere.* For the ſixth, *File, rank two to the right*, and, *files to the right, double. Face them about*, and they are *reduced.*

CHAP. LXX.

Of making men File-leaders ſucceſſively, according to their precedency and dignity in file.

HAving already demonſtrated two Tables, for the making of men *File-leaders ſucceſſively*, let it not be held impertinent if I preſent two others unto you; wherein I ſhall deliver the way of making men *File-leaders, according to dignity.* Snarling Cynicks, I know, will *carp* at my *curioſity*; but *ſtudious Souldiers* will *praiſe* my *induſtry.* Men naturally are not inclined to practiſe any thing, wherein they find not either profit or delight: few men by the *practice* of *Armes* makes * profit. If then the *aimes* of *honour* may be firſt attracted, with the various delights which are found in the ſtudy and practice of the *Art Military*, why ſhould any grutch the gilt to the wholeſome Pill, (which makes it the more readily and willingly received?) Or, why ſhould any hinder the meanes, whereby *Souldiers* may be built up with delight, ſeeing that the benefit redounds to the reputation and honour of our Countrey? Thus much upon mine own knowledge: I have ſeen ſome ſo prepoſterous to all conceit of *Souldiery*, that they have ſhunned it with as much care as thrifty husbands doe beggery; yet caſually happening to ſee the *exerciſe of a ſingle file*, have been ſo taken with ſome conceit or knack, that without any further aime, they have taken *Armes*: wherein, by their *practice* and *induſtry*, they have attained ſo much *proficiency*, that now they are known excellent in many parts of the *Art Military.* Nor hath their flowring buds been any way priviledged, or might eſcape thoſe private and froſty nips from aſperſionating tongues; a fault too common and cuſtomary in many, to deſpiſe the vertue of thoſe, whom they have known raw novices in that *art* and *faculty*, wherein themſelves have been noted any thing extraordinary. But leſt I be cenſured to be over-tart or tedious, I return to the worke of this Chapter: which is, *the making men file-leaders in dignity.*

* *What fortunate profits Souldiers have made by following this Art, read Rawleighs Hiſt. of the World, l. 5. c. 6. Sect.*

Each mans *dignity* and *worth*, with the reaſons thereof, are at large ſet forth in the *fourth* and *fifth* Chapters of this Booke. The *Table* followeth, wherein is declared every mans *dignity*, and the words to make them *file-leaders* accordingly, &c.

File-leaders by Dignitie.

The proper file-leader.	The bringer-up.	The half file-leader.	The bringer-up of the front-half file.	The ſecond man from the front.	The next after the half file-leader.	The ſecond man from the reere.	The third man from the front.
1	2	3	4	5	6	7	8
5	6	7	8	1	2	3	4
3	4	5	6	7	8	1	2
7	8	1	2	3	4	5	6
2	1	4	3	6	5	8	7
6	5	8	7	2	4	1	2
4	3	2	1	8	6	7	8
8	7	6	5	4	3	2	1

A. 1. *File-leader.*
B. 2. *Bringer up.*
C. 3. *Half-file-leader.*
D. 4. *Bringer-up of the front-halfe-file.*
E. 5. *The ſecond man from the front.*
F. 6. *The next before the bringer-up.*
G. 7. *Next after the halfe-file-leader.*
H. 8. *The third man from the front.*

The ſeverall words of Command, which produce each File-leader.

1	2	3	4	5	6	7	8
File-leaders ſtand; the reſt paſſe thorow to the right, and place your ſelves before your leaders.	File-leaders, and halfe-file-leaders ſtand; the reſt paſſe thorow to the left, and place your ſelves before your leaders.	Bringers-up, double your front to the right, and files to the right double.	Front and Reere halfe-files interchange your ground.	Rankes to the left double; then, files double your depth to the left.	File leaders, and half file-leaders ſtart; the reſt paſſe thorow to the right; placing your ſelves before your leaders.	Halfe-files, double your front to the left, then files to the left double.	The words of Command, to reduce them to their former places, are placed beneath this Table.

The Reducement.

1. Front and Reer halfe-files interchange ground.
2. Rankes to the right double.
3. Bringers-up face-about to the left, and march into your places.

The *file-leader* is the A. *chiefeſt man in dignity*, and *firſt leader* of the *file*. To make the B. *ſecond man in dignity file-leader*, (command) *file-leaders ſtand, the reſt paſſe through to the right, and place your ſelves before your leaders*. To make the C. *third man in dignity file-leader*, (command) *file-leaders, & half-file-leaders ſtand; the reſt paſſe forwards to the left, and place your ſelves before your leaders*. To make the D. *fourth man in dignity file-leader*, (command) *bringers-up, double your front to the left*, and (that being done) *files to the left, double*. To make the E. *fift man in dignity file-leader*, (command) *front and reer-halfe-files interchange ground*; and then *face* as before. To make the F. *Sixt man in dignity file-leader*, (command) *file, ranke two to the left*, (if it be a *ſingle file*: but if you have more *files*, then command, *ranks to the left double*) and *files double your depth to the left*. To make the G. *Seventh man in dignity file-leader*, (command) *file-leaders*, and *halfe-file-leaders ſtand; the reſt paſſe forwards to the right, placing your ſelves before your leaders*. To make the H. *Eighth and laſt man in dignity file-leader*, (command) *halfe-files double your front to the left*. (That done,) *Files to the left, double*. This being performed, every man hath ſucceſſively been the *leader* of his owne *file*, according to his *dignity* therein. The *reducement* is placed at the lower end of the *table*.

CHAP. LXXI.

Of making men file-leaders by dignity, the files being but ſixe deepe.

MAny wayes there bee to make men *file-leaders*, either *ſucceſſively*, or by *dignity* in one *ſingle file*; which cannot ſo eaſily (nor ſo properly) be performed with a whole *company* (or *larger body*) and therefore neither proper nor *uſefull*. Such waies onely being *fit* to be *practiſed*, as will ſute with any number, the *depth* onely *reſerved*, which

which I have here under-taken for ſixe *deep*. The following *Table* demonſtrates their *Number of dignity*, and the *ſucceſſion* of *each mans* comming to *lead* in *Front*; as alſo *each mans place* upon the *alteration* of every *leader*, and *ſeverall word of Command*. Beneath each Columne is placed the *words of Command*, to produce the next *enſuing leader*. Laſt of all is the *Reducement*.

Succeſſion of leading in Dignity.

6	5	4	3	2	1
2	4	5	6	6	5
1	3	1	2	3	4
3	1	3	4	1	3
4	2	6	5	5	6
5	6	2	1	4	2

Number of Dignity.

The words of Command which produce each File-leader.

1	6	5	4	3	2
The words of command to reduce them are at the end of this Table.	File-leaders ſtand; the reſt paſſe thorow to the left, and place your ſelves before your leaders.	Ranks to the right double; and Files to the right double.	Front and Reere-halfe-files interchange ground.	File-leaders and halfe-file-leaders ſtand; the reſt paſſe thorow to the left, and place your ſelves before your leaders.	Bringers-up, double your Front to the right: Files, double your depth to the right.

Although the *Table* it ſelfe were ſufficient to inſtruct the deſirous, yet for the clearer demonſtration, take theſe further inſtructions.

A. The *firſt-ranke*, or the *file-leaders* of each *file* are the *firſt* and *chiefeſt men in dignity*; every one in his owne *file*. A. *The file-leaders.*

To make the B. *ſecond-rank in dignity file-leaders*, (Command) *Bringers-up, double your Front to the Right*; (and then) *Files, double your depth to the Right*. B. *Bringers-up.*

To make the C. *third-rank in dignity file-leaders*, (Command) *File-leaders and halfe-file-leaders, ſtand; the reſt paſſe through to the left, and place your ſelves before your leaders*. C. *Halfe-file-leaders.*

To make the D. *fourth-rank in dignity file-leaders*, (Command) *Front and Reer-half-files, interchange ground*. D. *Bringers-up of the Front-half-files.*

To make the E. *fifth-ranke in dignity file-leaders*, (Command) *Ranks to the right double*, (and) *Files to the right double*. E. *The ſecond man from the Front.*

To make the F. *ſixth and laſt-rank in dignity file-leaders*, (Command) *File-leaders ſtand, the reſt paſſe through to the left, and place your ſelves before your leaders*. F. *The ſecond rank from the Reere.*

The *Reducement* is placed at the lower end of the *Table*.

The Reducement.

Ranks to the Left } double.
Files to the Left }
Halfe-files, double your Front to the Right.
Bringers-up, face-about to the Right, and march forth into your places.

CHAP. LXXII.

Of drawing the Files again into a Body, and preparing them for skirmiſh.

BY this time (me thinks) I heare the * *Drums beat a Call*; which ſummons each *File-leader* to his *place*: every man obſerving his *order*, both in *rank* and *file*. The *Officers* having

* *Upon the firſt ſummons of the Drum, every File-leader is to draw forth his file, (whether he be exerciſing them in Poſture or Motion) and to repaire to his Rendevous or Colours.*

having taken their due *places*; the *Captain* and *Ensigne* in the *Front of Pikes*, the *Lieutenant* in the *Reere*; the *Serjeants* on the *flanks*; the *Drums* on the *Front* and *Reer-angles* of the *Pikes*: as you may perceive by the *square Figure* following.

Now the *Drums beat a Martch*, the *Ensigne* flying at the *head* of the *Pikes*, the *Pikes* and *Musquets shouldred*, *martching* at their *distance* of *Order* [a] in *File*, at *Open-Order* in *Ranke*: presently, by a [b] *signe* from the *Captain*, the *Drums beat a Preparative*, the *Pikes advance*, the *Ranks close forwards to their Order*, the *Musquettiers make ready*, and every man prepares himselfe for *Battell* or *Skirmish*. And here the eyes of the *Drum* must be very vigilant to observe his *Captaine* or *Commander*, that by the least *signe*, either of his *hand*, *leading-staffe*, or whatsoever else hee carries, hee may either continue his *Charge*, *Retreit*, or else *Charge home*; and every *Souldier* ought to be so well *trained* and *practised*, that in the time of *Battell* hee may receive *ample instructions* from the *sound* of the *Drum*.

[a] *Distance in rank and file is to be understood betweene rank and file and not as some would fondly wrest it.*

[b] *That is, to advance his Keyn, Pike, or Leading-staffe.*

If the Captain sends out loose files or ranks to skirmish before the Front, the Ensigne continues standing at the head of the Pikes, his Colours flying: If the Captaine prepare to give fire, either even with the Front of Pikes, or in the single horne Battell, then the Ensigne to furle-up his Colours, and retreit to the halfe-files. The Body drawn into a square, with the Officers in their places.

Front.

E. C.

S.	M	M	M	M	D.	P	P	P	P	P	P	P	P	D. M M M M S.
	M	M	M	M		P	P	P	P	P	P	P	P	M M M M
	M	M	M	M		P	P	P	P	P	P	P	P	M M M M
	M	M	M	M		P	P	P	P	P	P	P	P	M M M M
	M	M	M	M		P	P	P	P	P	P	P	P	M M M M
	M	M	M	M		P	P	P	P	P	P	P	P	M M M M
	M	M	M	M		P	P	P	P	P	P	P	P	M M M M
S.	M	M	M	M	D.	P	P	P	P	P	P	P	P	D. M M M M S.

L.

Reere.

Small Companies have beyond the Seat but two Serjeants and two Drums.

Thus many *Officers* may serve for a larger *Company*, if the *Souldiers* be expert and skilfull: and to the contrary, they are all too few, if they be raw and unexperienced. I have seen some *Companies* which have been so absolutely ignorant, that each man would have needed an *Officer* to have kept him orderly in his place: Nevertheless, I make no doubt, but that by the carefull over-sight of the *Lord Lieutenants*, the good assistance of their *Deputies*, and the diligence of the *Captaines* and their *Officers*, this fault will quickly be amended. And this might easily enough be done, if that those which are *owners* of *Arms* would meet one houre or two in a fortnight, (at their best leasures) and first practise the *Postures* of the *Pike* and *Musquet*, not omitting to *exercise* the *Motions* and *Firings*, when they are grown more *expert*. If any shall object, that however this may be done in *Towns* and *Cities*, yet it cannot be in the *Country Villages*: I answer, that if they meet not above foure, six, or eight in a place, although they have no *Officer* to instruct them, yet by conferring and trying, and often practising, they will begin to carry their *Arms* with more ease, and to use them with more delight. Neither need they to be altogether ignorant, seeing there are divers printed *pourtraitures* of the *Postures* of each *Armes*, as also *books* whereby they may have very *ample instruction*: By which having attained some little skill, they will not be contented untill they have better improved it, by the instruction of their

The willing mind will find many wayes to learne.

their *Officers*; after which they will prove better *proficients* in one houre, then as they were before in a yeare.

CHAP. LXXIII.

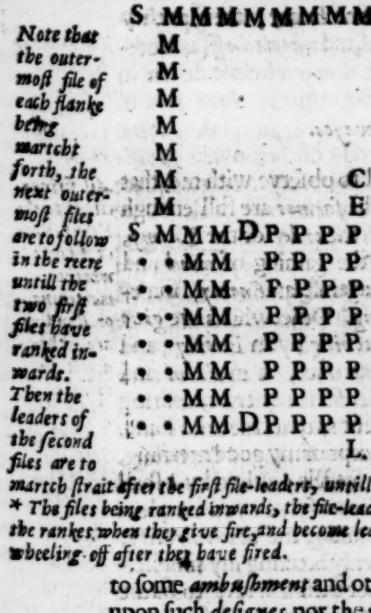
Of Firing by forlorne Files, three ſeverall wayes.

BEfore I enter upon *Formes* and *Figures* of *Battell*, be pleaſed to obſerve with me, that all *firings* are either *direct* or *oblique*: notwithſtanding that the *formes* are full enough of *variety*, occaſioned (moſt times) by the *ſcituation* of the *place*, the *order* of the *Enemy*, and the *number* of *men*, with other *politicall obſervations* for the gaining of *wind* and *ſunne*. For the manner of *firings*, they are ſometimes *advancing* againſt an *Enemy*, ſometimes *receiving* the *Enemies charge* upon a *ſtand*, or elſe *retreiting*. Otherwhiles we *give fire* in the *Reere*, *marching* from the *Enemy*; or in *Flanke*, *marching* by an *Enemy*; and it may ſo fall out, that the *Enemy* may *charge* in ſeverall places at once, as in *Front* and *Reere*; or in *Front*, *Reere*, and *Flank*; of which particulars, I will ſeverally treat, deſiring to give content to all, not making the leaſt queſtion, but that benefit may accrue unto ſome. And therefore hoping that the *courteous* and beſt *quallified* will accept of my good meaning, and not refuſe my cares, although preſented unto them in earthen veſſels; whereby I ſhall be induced with more willingneſſe to proceed in my intended diſcourſes, ſo you be pleaſed to favour me with your better *opinions*; neither raſhly condemning me of *prodigality*, for enterpriſing a work of ſuch *conſequence* as this; nor too ſuddenly accuſing my ſimplicity, for preferring my *ruſh-light* before the *Sun*, when others ſuffer their *Torches* to burne out in dark Lanternes; whom I confeſſe to be farre more able (were they but halfe ſo willing) to have imparted of their *Talents* to the benefit of their *Countrey*. But ſeeing that they will not vouchſafe it, and that I, like *bold Bayard*, have adventured thus farre, I ſhall (with your good favour) proceed: And firſt I will begin with *Firings in Front*, *advancing*, and *ſtanding*; and ſo to the reſt. And for the more cleare expreſſion of each *firing*, I will deliver them both in *words* and *Figures*: The *firſt* whereof ſhall be a * *Firing by forlorne files*, which commonly is uſed in our *exerciſe* two manner of wayes: One way is, for the *two outer-moſt files* of each *flank* of *Muſquettiers* to *march* forth, being led on by the two *junior Serjeants*, ſo far as by the ſuperiour *Commander* ſhall be thought fit; who being there to *ſtand*, the *fore-moſt ranks* are to *give fire*, *wheeling-off* both to the *right*, or to the *right* and *left*, (if it be ſo commanded) and to place themſelves in the *Reer* of their own *files*, the reſt *firing*, and doing of the like, untill they have *fired* once or twice over, according to their directions. This done, the next *two out-moſt files* of each *flanke* are to *march* forwards into the *place* aſſigned, and to doe the like: thoſe *files* which formerly *gave fire* in the mean time *trooping* back, and placing themſelves next the *Pikes*, on the *in-ſide* of the *diviſions* of *Muſquettiers*; the reſt of the *Muſquettiers* (in like manner) *marching up*, and *firing*; ſtill placing themſelves next the *Pikes*, as afore-ſaid. When they have *fired* all over, and placed themſelves according to theſe *directions*, they are *reduced* as at firſt. A ſecond way of *Firing by forlorne files* may be after this manner: The *out-moſt files* of each *flank* are led forth by the *Serjeants* (according to their charge) untill they have brought them unto a *fit place* for *execution*; and then they *command* their *files* to *rank inward*, and to *preſent*, and *fire* all together; as you may plainly perceive by the *Figure* following.

All firings either to the Front, Reer or Flanks, whether marching or ſtanding, are either direct or oblique.

* *Firing by forlorn files.*

Another way of firing. Note the diſtinction.



Note that the outermost file of each flanke being martcht forth, the next outermost files are to follow in the reere untill the two first files have ranked inwards. Then the leaders of the second files are to martch strait after the first file-leaders, untill they have closed to their order.

* *The files being ranked inwards, the file-leaders become the outermost men of the rankes, when they give fire, and become leaders of their files againe, in the wheeling off after they have fired.*

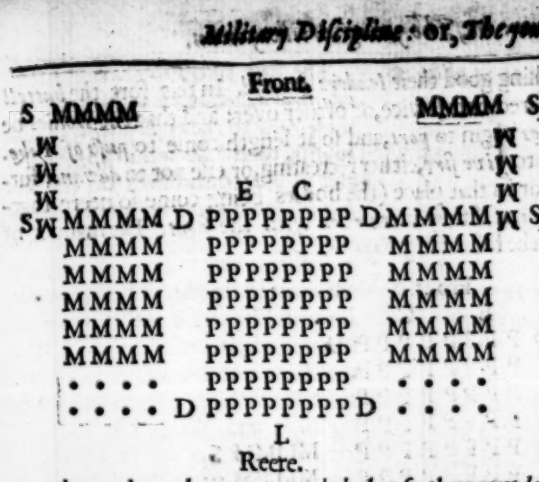
The first two *Files* having *ranked inward, presented* and *fired*, are to *wheele-off* to the *right* and *left*; following their * *leaders* in *single files*, and placing themselves on the *inside* of their *divisions* of *Musquetiers* next the *Pikes*; the next *outmost files* which followed the first in the *reere*, in the meane time, *ranking inward, firing*, and *wheeling-off*, as before, and placing themselves next the *Pikes*. And so forwards for all the rest of the *files*: still *martching up*, and doing the like, so long as the *Captaine* or *Commander* shall see fitting. These kinds of *firings* (and all such like) are either for the *beginning* of *skirmishes*, before the *Bodies* come within shot one of another, or to provoke the *Enemy* to *battell*, to draw them into some *ambushment* and other such politicall ends: the *number* of men which *martch* forth upon such *designes*, nor the *manner*, are not alwayes certaine, but consist sometimes of more, sometimes of fewer, according to the *number, time*, and *place*. If the *Commander* please, *the outermost-file on each flanke* may when they *move forwards, and are come to their ground for firing; ranke the one half of each file inward into the front: the rest being led by their half-file-leaders, move forwards to their Order, standing file-wise after the outermost-men (of the former ranke) who are the file-leaders; having fired, they are to wheel-off; the others in the interim, ranking into their places; the next out-most Files to martch forwards*, doing according to the former directions for the whole Files.

CHAP. LXXIV.

Of Firings by two rankes, ten paces advanced before the Front: Next, even with the Front: And lastly, even with the half-files.

Advancing of two *rankes* to *fire, ten paces* before the Front, is most commonly used, when one or both *Battells* martch against each other; the *Musquettiers* being led forth by two ranks together ten or twenty *paces*, before the *front* of the *body*; that so they may come neere enough to doe certaine *execution*. A *Serjeant* from each *flanke*, leading up the two *fore-most rankes*, (according as they shall have order) the first *ranke of each flanke* is to *present*, and *give fire, wheeling* either all *off* to the *right*, or to the *right* and *left*, as you may perceive by the following Figure.

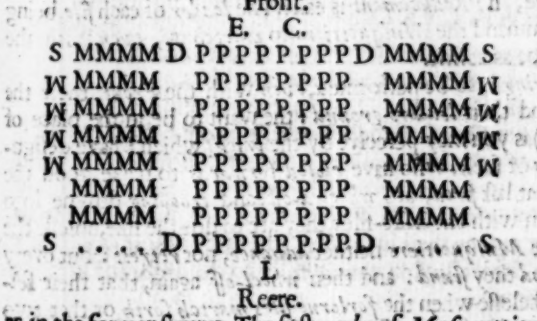
Front.



The first *ranke* having *presented, fired*, and *wheeled-off* (as aforesaid) are to *march* close down in *single file*, within *three foot* of their own *flanks*, untill they come to the *reere* of their owne *divisions*; where every man is to place himselfe in the *reere* of his owne *file*. The second *ranke* being at the *distance* of *three foote* behind the first *ranke*; when they first tooke their *ground*: they likewise are to rest their *Musquets*, mounting their *muzzles* cleare of their *leaders*; and so to stand with their *matches cocke*, and *pannes guarded*, that so they may *levell* and *fire* as soone as their *leaders are cleare* of them, and *wheele-off*, in like manner *placing* themselves as they were before. The next two *ranks* are to begin to *advance forwards*, when they see the *last* of the *two former rankes, presented, ready* to *fire*. And they also having *fired, wheele-off* as the others did before them. And so successively, the rest of the *ranks advancing, firing*, and *wheeling-off againe placing themselves* according to former *directions*. This way they may *give fire, once* or *oftner* over, as the *enemy* doth *advance*, or the *Commander* shall see fitting. All this while that the *Musquetiers advance* so farre before the *Front*, (if the *body* be upon *march*) the *Pikes* may be *shouldered*: but when the *bodies* come within *eight-score*, or lesse, (*if there bee any doubt of the Enemies horse*) then it is fit that the *Musquettiers give fire* even with the *front* of the *Pikes*, and that the *Pikemen advance* their *Pikes*, and *close forwards* to their *distance* of *three foot*, that so they may be *even* in *ranke* with their *Musquettiers*, as you may perceive by the following *Figure*. If there be no feare of the *enemies horse*, then the *Pikes* may move *shouldred, and close forward to their Order*; by that meanes saving their *Pikes* from being *shattered and broken* by the *bullets* that flie at *randome*.

The manner described how this firing ought to be performed.

No Commander so precisely bound to any forme, but that he may as occasion serveth, alter this Figure at his pleasure.

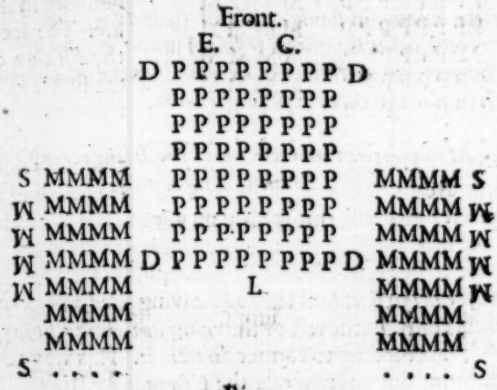


Now the *Pikes* being *advanced*, and the *ranks closed forwards* to their due *distance* of *Order*, the *Musquettiers* are to *present, even* with the *front*, every *ranke* successively moving forwards, untill they come to be *even* in *ranke* with the first *ranke* of *Pikes*, there to *give fire*, and to *wheele-off* to the *right* and *left*; *trooping file-wise*, down close to their own divisions: and taking their places in the *reer*, as in the former figures. The first *ranke* of *Musquettiers* having *fired* and *wheeled* away, the next *rankes* are to *move* forwards at three * *motions* into their places, and there to *give fire* after the same manner; *wheeling* away again, and placing themselves according to for-

**The three Motions are*, Blow your coale, Open your Pan, Present breast-high. *You are to* blow your coale, *stepping forwards with your left-foot*. Open your Pan, *stepping forwards with your right-foot*. Present, *stepping forwards with your left-foot. These Motions are to be performed hand and foot together, by every one that advanceth ground to give fire, without expecting any directions in time of skirmish.*

mer *directions*, every *ranke* ſtill making good their *leaders ground*. In this ſort the *battell* may be continued, untill they have fired once, twice, or ofmer over: and that the *Bodies* be come ſo cloſe together, that the *Pikes* begin to *port*, and ſo at length come to *puſh of Pike*. Which done, the *Muſquettiers* are to *give fire*, either retreating, or elſe not to *advance* further then the *half-files* of *Pikes*. For in that place (the bodies being come ſo neere together) they will doe as much *execution*, as if they were *even* with the *front*. The manner of the *ſtanding*, you may perceive by the following *Figure*.

The Pikes comming to the port and charge: the Muſquettiers either firing without advancing into their leaders ground or even with the halfe-files.



The *Pikes* being now *charged* and ready to come to the *puſh*, the *Muſquettiers* are to advance no further then the *Halfe-files* of *Pikes*: that ſo they may do execution with their *ſhot* and be out of danger of the Pikes. This having attained, they are there to *preſent* and *give fire*; every ranke ſtill *moving forwards*, and maintaining his leaders *ground*. After they have performed their *firing*, they are to *wheele-off* by *diviſion*, as in the former Figures: ſtill placing themſelves in the *reere* of their own *files*, alwaies taking their directions from the *Drum*, either for *charging* on, or *retreiting*, &c.

The reducement.

The *Battell* or charge being ended, the *Reducement* is eaſie. The *leader* of each *file*, being in his place at the *head* of his *file*, command the *Muſquettiers* to *martch* up, *even* with the *front* of *Pikes*, and then they will be as at firſt.

Note the ſeverall obſervations.

Obſerve withall that when the *firing* is to be performed, *even* with the *Front*, then the *Muſquettiers* are ſtill to make good their *leaders ground*: the want to be in the place of moſt ſecuritie, (which is the *Reere*) as you may perceive by the *pricks* which I have deſigned, for noting out the *empty roomes* of ſuch, who have *cloſed forwards* to make good the *ground* in the *Front*: the others that laſt *fired*, are *wheeled-off*, and *trooping* downe into their places. When the firing is even with the halfe-files, they are to doe the like, unleſſe the *Drumme beat a retreit*, for then the *Muſquettiers* neither *advance*, nor *retreit*: but every *Ranke giving fire* on the ſame *ground* they *ſtand*: and then *wheel-off* again, that their fellowes may doe as much. * Nevertheleſſe when the *forlorne files martch forth*, or that two ranks *martch forth*, ten *paces* (or more) before the front: then they are to give *fire*, as upon a *retreit*: unleſſe the *enemy* give ground or flye. I will now ſhew ſome other wayes of *firing in front* (before I ſhew the *firings* in the *reere*) The firſt whereof, ſhall be the *horne battell*: as in the Chapter following.

** Note concerning forlorne files, and two ranks before the front.*

CHAP.

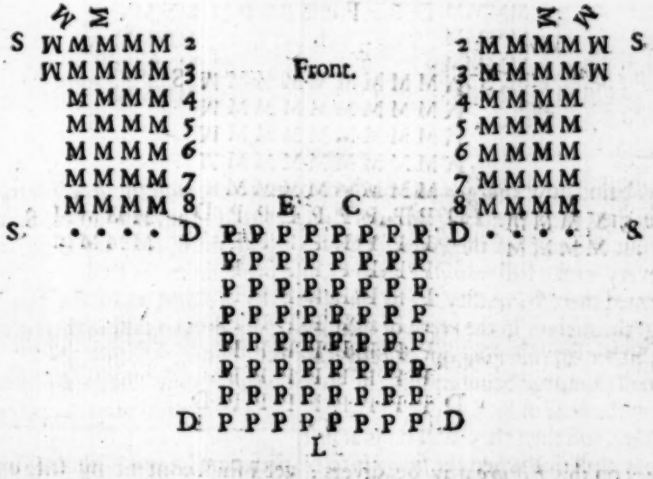
CHAP. LXXV.

Of the Horn-Battell, how to make it, and to reduce it by firing.

THe *Horn-Battell* may be for the ſame occaſion and uſe, as the *firing* by *two ranks, ten paces advancing before the Front*; and is by ſome held more ſerviceable; becauſe that the *Muſquettiers* doe their *execution* more roundly, without any intermiſſion of time, and keep themſelves without ſtragling from their *Bodies*. Beſides, the *Wings* of *Muſquettiers*, being ſo advanced, are more apt for *over-fronting*, and more eaſily to be *wheeled*, whereby to charge the Enemy in *flank*: each of theſe *Wings* or *Diviſions* are to be led up by a *Serjeant* (or ſome other ſuperiour *Officer*) unto the *place* appointed by the *Chiefe*. But becauſe it may be performed in time of *exerciſe*, by the intelligible *Souldier*, obſerve the *Command* which produceth this following *Figure*.

Pikes ſtand, Muſquettiers martch, untill the Bringers-up rank with the Front of Pikes.

The Horn-Battell.



The *Figure* being perfect, the *firſt-rank of Muſquettiers preſent, and give fire, wheeling-off* either all to the *right*, or to the *right* and *left*, (according as they ſhall have direction) and placing themſelves orderly, in the *Reere* of their owne *files*. The *next rank* (after the ſame manner) *firing* and *wheeling-off*, and placing themſelves behind thoſe which were their *leaders*. Thus is every *ranke*, ſucceſſively, to doe the like, untill they have all *given fire*. If the *Commander* would ſtill preſerve and continue the ſame *Figure*, then let the *Muſquettiers* ſtill *move forwards*, into the ground (or place) of them that *fired* before them; and the *forme* will be the ſame. But if by the *Chiefetain* it be found neceſſary, that after once or twice *firing over*, the *Shot* ſhould *flank* their *Pikes*, then the *Muſquettiers* muſt not advance into their *leaders ground*, but to the contrary, every *rank* is to *preſent and fire* on the ſame *ground* they ſtand, and that ſo ſoon as they are *cleare* of their *leaders*. Or, if need be, the *Pikes* may advance and *martch-up*, to make their *Front intire*: which being done, the *File-leaders* of *Muſquettiers* being in *Front*, they are *reduced*.

The firing deſcribed.

Note.

The reducement.

CHAP. LXXVI.

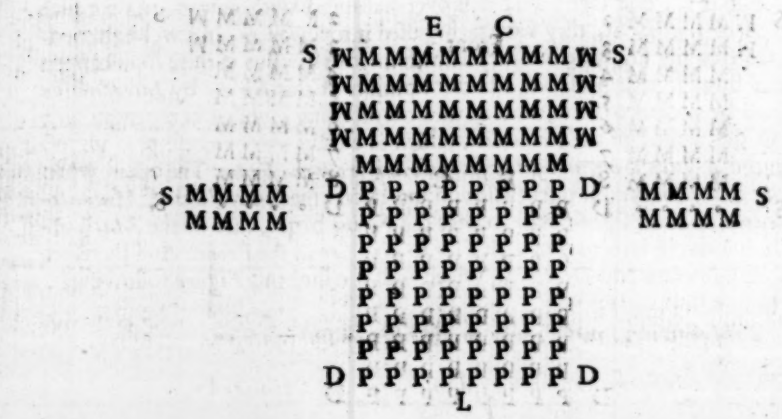
Of the Demie-hearſe Battell: The uſe of the Figure, how to make it, and to reduce it by firing.

THe next *firing* in *Front*, which I preſent unto you, is the *Demie-hearſe*: which is a *Figure*, firme, ſolid, and ſtable; yea, and doth as much *execution* as any of the former, and that with halfe the danger. For the *Pikes* in the former *Figure*, they either *rank even* with the *Front* of *Muſquets*, or elſe the *diviſion* of *Muſquettiers* being open, they become liable to the danger of the Enemies *ſhot*, themſelves not being able to doe any thing, either *offenſive* or *defenſive*. But, to the contrary, in this *Figure* they are ſecurely covered by their owne *Muſquettiers*, untill they approach nearer to the Enemy; whereby they may be able to doe ſome ſervice, either by ſending their *ſhowres* of *arrowes* amongſt them, thereby breaking their order and array; or elſe, by *cloſing nearer*, come to the *ſhock*, and ſo try the fortune of the day. But not to hold you longer in *circumſtance*, take the words of *command*, which produce the *Figure* as followeth:

The danger of the Demie-hearſe is feare of being overfronted.

Pikes ſtand, Muſquettiers advance before your Front of Pikes, and cloſe your Diviſions.

Front.



The *firings* on this *Figure* may be divers; yet I ſhall content my ſelfe onely to ſhew two of them: The * *firſt* is, that the *Muſquettiers* may, at the diſcretion of the *Commander*, *give fire* in *Front*, and ſo *wheele-off* by *diviſion* (or all to the *right*, as ſhall beſt pleaſe him that *commands* in *chiefe*) placing themſelves in the *Reere* of their owne *diviſions* and *files* of *ſhot*, which is juſt before the *Front* of *Pikes*. The *next ranks* then *moving forwards* into their *leaders ground*, are to *preſent*, *fire*, *wheele-off*, and place themſelves after the ſame manner; the reſt of the *Muſquettiers* doing the like, untill they have all *given fire*: which *Firing* doth nothing alter the *form* or *Figure* of *Battell*. Having *fired* once or twice over this way, the ſecond *Firing* ſhall ſerve for *Reducement*; which is indeed the *Firing* intended to be expreſt by this *Figure*. And that I may by *words* the more clearly explain the *Worke*, take theſe *directions* following.

* The firing with this Figure.

The ſecond firing on this Figure ſerveth for the Reducement. Note this direction.

The * *firſt-rank* having *given fire*, are to *wheele* equally *off* by *diviſion*, each part falling *file-wiſe down*, cloſe by their *flanks* of *Muſquettiers*, untill the *leaders* of the *ranks* of *Muſquets* come down as low as the *firſt-rank* of *Pikes*; which being performed, they are to

face

face outwards, and to move ſo far-forth in a *ſtraight line*, untill they have *ranked even* with the *firſt-rank* of *Pikes*. But here-withall are they to obſerve, that they muſt leave an *interval* between the *inner-moſt Muſquet* of each *flanke*, and the *outer-moſt File-leader* of the *Pikes*. So ſoon as the *firſt-rank* hath *given fire* and *wheeled-away*, the *ſecond-rank* is to *give fire*, *wheeling-off* as before, and *paſſing down* between the *intervals* on the *flanks*, placing themſelves after their *leaders*. The ſame is every *rank* ſucceſſively to doe, untill all the *Muſquettiers* are drawn from before the *Front*, and placed on the *flanks* of their *Pikes*. But when there are not above two *ranks* of *Muſquettiers* to *give fire*, then the *Pikes* may *Port*; and when the *Muſquettiers* have *fired*, and are *wheeled-away*, they may *Charge*. And laſtly, the *Pikes* being *re-advanced*, the *Body* ſtands *reduced* as at firſt.

The Pikes Port and Charge.

CHAP. LXXVII.

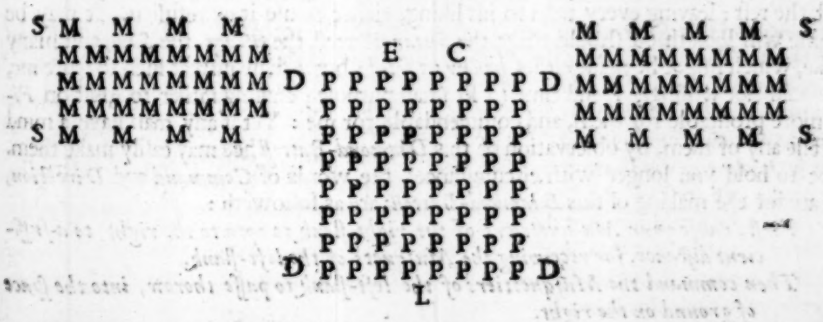
Of giving fire, advancing, by way of Introduction, with the beneficiall uſe of the Bow and Pike.

I Shall next offer to your peruſall a *Figure* of *Introduction*; which is a *paſſing thorow* or *between*: being a *Firing*, *advancing* againſt the *Enemy*, and *gaining ground*. I will not diſpute how uſefull it is; but ſure I am, it is over-ballanced with danger. As for ſuch whom I have ſeen to *practiſe* it, they have rather uſed it for *variety*, in a wel-experienced *Company*, than for any known *excellency* it hath in it ſelfe. But if theſe *lines* happen to be over-lookt by any, that preſerves a better opinion of this *Firing* by *Introduction* than I doe, I ſhall be willing to leave them to their owne liking; while I in the mean time proceed to ſhew the manner of the *execution*, which is uſually one of theſe two wayes. The firſt, when the *Motion is begun by the ſecond-rank from the Front*. The other, when *it is begun by the Bringers-up*. Nevertheleſſe you muſt note, that your *Files* of *Muſquettiers* muſt be *opened* to their *Open-Order*, before the *Firing* begin, that ſo the *Muſquettiers* may paſſe between the *intervals* of each *File*, to *give fire* in the *Front*. And therefore take the words of *Command* and *Direction*, which will produce this *Figure* following.

Firing by Introduction ordinarily performed theſe two manner of wayes.

Muſquettiers, make ready to give fire by Introduction.

Files of Muſquettiers, open by diviſion to your Open-Order.



This *Firing* by *Introduction* may be thus performed: The *Pikes* being *flanks* with their *Muſquettiers*, the *firſt-rank* of each *flank preſent* and *give fire*; having *fired*, they *ſtand* and *make ready* again in the ſame place: The *ſecond-rank* paſſing forwards before the *firſt*, doe

The direction for firing by Introduction.

doe there *fire* and *ſtand*: The *third-rank* then paſſing forwards after the *ſecond*, and ſtanding *even in rank* with them that firſt *fired*, that ſo ſoon as the *ſecond-rank* hath *fired*, they may quickly ſtep before them, and *fire* in like manner. In this *Firing*, ſtill the *rank* which is next to *fire* ſtands *even in rank* with them which laſt *fired*, untill thoſe which *ſtand preſented* have likewiſe *given fire*; after which, they then paſſe before them: the *rank* which was their next *followers*, paſſing forwards, and *ranking* with thoſe which laſt *fired*; every man following his *leader* ſucceſſively, untill the *Bringers-up give fire*, and *ſtand*; and then the *Figure* will become a *Horn-Battell*. All the while that this *Firing* by *Introduction* is continued, the *Pikes* may be * *ſhouldred* (if there be no feare of *Horſe*) or otherwiſe at diſcretion. If you continue this *Firing* twice over, the *Muſquettiers* will have their right *places*: which being done, *martch-up* your *Pikes*, to *rank even* with your *Muſquettiers* in *Front*, and they are *reduced*. For the [a] other way of *Firing* by *Introduction*, the *firſt-rank* (or *File-leaders*) are to *give fire* as before, and to *ſtand*; the *laſt-rank* (or *Bringers-up*) in the interim of their *Firing*, *martching-up*, and *ranking-even* with the *ſecond-rank*; the reſt following their *Bringers-up*, as they doe when *Bringers-up double* their *Front*. The *firſt-rank* having *fired*, the *Bringers-up* ſtep immediately before them, *preſent*, and *give fire*; the reſt ſtill ſucceſſively doing the like, untill every *rank* have *given fire* once over. Obſerve withall, that the *File-leaders* are to *give fire* twice over, being the firſt and the laſt; and then to *ſtand*, the *Pikes martching-up even* with their *Front* of *Muſquettiers*: And thus they are *reduced*, as at firſt. The *Pike-men* all the time of this *Firing* doe no ſervice: notwithſtanding, if one *halfe* of them had *Bowes* faſtened unto their *Pikes* (being able and wel-practiſed men) they might, whileſt the *Muſquettiers* are in *Firing*, be dealing of their doles about; and although their *arrowes* did not happen to wound mortally, yet the whiſtling noyſe, the terrour of the ſight, and the ſeverall hurts (which could not chuſe but be many) would be a great abatement to the ſtouteſt courages: And great pity it is to ſee the luſty *Pike-man* poorly to drop down by the *Muſquet-ſhot*, himſelfe not being able to hurt his Enemy at that diſtance, nor defend himſelfe.

If there be no direction given, they are to paſſe thorow to the right.

* *The Pikes may be ſhouldred, and ſtill be moving ſlowly forwards, and ſo keep even with the Front of Muſquettiers.*

[a] *A ſecond way of firing by Introduction.*

The Reducement.

The uſe of the Bow and Pike.

CHAP. LXXVIII.

The way to make the Diamond-Battell: ſeverall wayes to Fire upon it: with divers other Figures and Firings, which are thereby produced.

THe *Diamond-Battell* is alſo a *Firing* in *Front*, though more for ſhew then *moderne ſervice*; yet becauſe that ſome hold it in venerable reſpect, I thought fit to place it amongſt the reſt; leaving every man to his liking, either to uſe it or refuſe it. It may be that ſome will look that I ſhould make the *Shear-Battell*, the *Wedge*, the *Saw*, and many ſuch like, which might be made either *hollow* or *ſolid*; but I ſhall intreat ſuch to ſpare me, for I would not willingly ſpend time to ſo ſmall purpoſe; chuſing rather to inſiſt on *Figures* more profitable for them, and commendable for me: Yet if any man have a mind to practiſe any of them, by obſervation of this *Diamond-Battell* hee may eaſily make them. But not to hold you longer with circumſtance, the words of *Command* and *Direction*, which are for the making of this *Diamond-Battell*, are as followeth:

Firſt, cauſe your Muſquettiers of the right-flank to open to the right, to a ſufficient diſtance, for receiving the Muſquets of the left-flank.

Then command the Muſquettiers of the left-flank to paſſe thorow, into the ſpace of ground on the right.

Or you may cauſe your Pikes to ſtand, and Muſquettiers to move all into the Front, then joyn them before the Pikes; which is the better way. But whether your Muſquettiers be all in Front, or on the Flank.

The

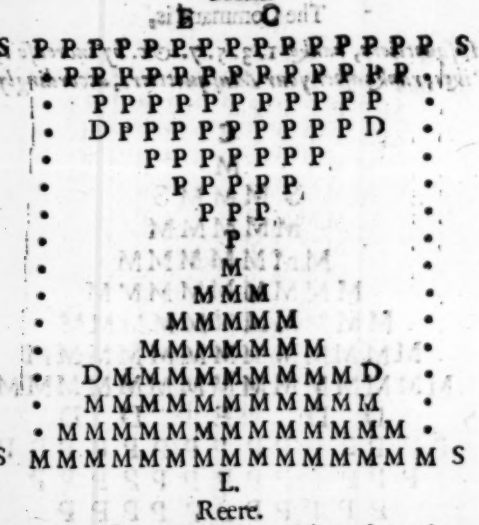
The Command is,

Files of Muſquettiers, ranke 1. 3. 5. 7. *&c. by increaſe to the left.*
Files of Pikes; ranke after your Muſquettiers, accordingly by decreaſe.

The *Muſquettiers* may *Fire* on this Figure, divers wayes: though I onely intend to ſpeak unto two of them. The firſt is the moſt uſuall way: and that is the *giving fire in rank*; the fore-moſt man (or *point* of the *Diamond*) firſt *giving fire*: then *wheeling-off* to the *right*, and placing himſelf juſt behind the *ſingle Pikeman* in the *reere*. Then the *next rank*, being three men, *give fire wheeling-off* by *diviſion*: and placing themſelves in rank, behind the *ſingle Muſquettier*, as they were before the *Firing* began. This done, the rank of five *Muſquettiers*, *gives fire*; *wheeling-off*, in like manner, by *diviſion*: ever obſerving, that where the *number* is *odde*, and they *commanded* to *wheel-off* by *diviſion*, there the greateſt *number* alwayes goeth to the right. And ſo in like manner, the *Ranks give fire* ſucceſſively; and place themſelves after their *leaders*, as before. When all the *Muſquettiers* have *given fire*, and are *wheeled-off*, then *charge Pikes*, which will be fifteen in the *firſt ranke*, the reſt *decreaſing*. Having advanced your *Pikes*, your Figure will ſtand like two *wedges*, with their points joyned, as you may perceive by this Figure next following.

The way to fire on the Diamond Battell.

Front.



Reere.

Obſerve this way of reducement, by interchanging of ground.

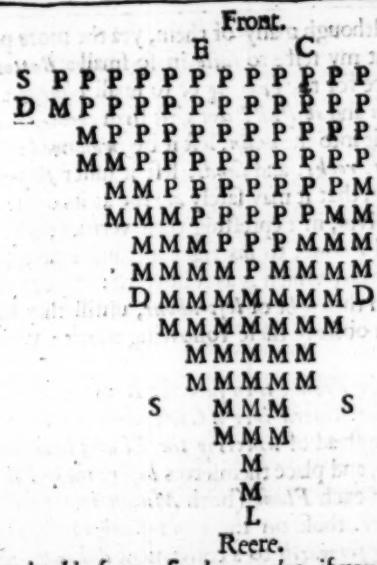
If you would reduce your men from this *figure*, without *firing*, (your men being ſufficiently expert) let the *Muſquettiers ſtand*, and *Pikes* face to the *Reer*, and ſo the *wedges* will ſtand faced in *oppoſition*; next, command them to *interchange ground*: the *Muſquettiers* advancing forwards, into the *ground* of the *Pikes*, and the *Pikes* moving into the *ground* of the *Muſquettiers*; then by facing the *Pikes* to the *former front*, the *body* will ſtand in form of a *Diamond* again.

If you would *reduce* this *Figure* again into the form of the Diamond, by firing your *Muſquettiers*, (being now all in the *reere*) the *body* muſt *face-about*: and ſo the *firing* will be contrary to the former. But if you *wheel them about*, they may *give fire* the ſame way. Howſoever after they have *given fire*, they are to *wheel-off* by *diviſion*, and to place themſelves in the *reere* of the *Pikes*, even in ranke again, as they were when at firſt they *gave fire*. Thus having all *fired over*, and *wheeled-away*, the *Pikes* may charge: and being again *advanced*, the *body* will ſtand in form of a *Diamond*: and this I pray you to conceive, for I intend not to re-make the Figure.

An oblique firing from the Diamond, the Muſquettiers counter-martching & making a deep wedge The direction for this firing.

The ſecond way of *firing* on the *Diamond figure*, is by way of *Counter-martch*: and is an *oblique firing*. For whereas in the other *firing* by *ranks* (in the *Diamond Battell*) each *ranke fired* by increaſe of two (*beginning* with one, and *ending* with fifteen in a *ranke*) this *firing* contrariwiſe, *begins* with 15 and *ends* with 1. ſtill decreaſing 2. For this *firing*, your *files* muſt be at *open-order*, becauſe the *Muſquettiers* muſt *counter-martch* down between the *intervalls* of their owne *files* to the *right*: every *Muſquettier* that finds himſelf without a *leader*, being to *preſent* and *give fire*, and then to *counter-martch* to the *right*, placing himſelfe in the *reere* of his owne *file*, behind the *Pikes*. When the firſt 15 have *fired*, then the next 13 *preſent*, *give fire*, and *counter-martch*, ſtill placing themſelves in the *reere* of their owne *files*. Next there *fireth* 11 then 9, &c. for ſtill there *fires* ſo many, as are clear from any *leaders*. And in this manner of *firing*, they that *fire together*, ſtand neither in *ranke* nor *file*, but *obliquely*. When all the *Muſquettiers* have *fired*, and are *counter-marcht* into the *reer* of their own *files*, let the *Pikes charge*: and then the *form* of your *Battell* will be like a *deep wedge*: as you may perceive by the following *Figure*, where your *Ranks* are become *two* and *two of a number*.

Front.



Your men ſtanding in this form of a *deep wedge*, if you pleaſe yet to be more [a] curious, *face* them all to the *Reere*, and command your *Muſquettiers* to *march* 10. or 12. paces, your *Pikes* to ſtand; which done, your *Muſquettiers* will preſent you with an *hollow wedge*, and your *Pikes* with a *ſollid wedge*. Laſtly, to [b] *reduce* all theſe ſeverall forms into the *firſt, proper, ſquare-Battell*; firſt, let the *ſollid wedge cloſe forward*, into the *hollow* of the other: then let the *Muſquettiers make ready, preſent*, and *fire*, as before: that is to ſay, Every *Muſquettier* that finds himſelfe without a *leader* is to *give fire*, and to *counter-march* to the *Reere* of his own *File*, the reſt doing the like, ſucceſſively. When they have all *fired*, and are *counter-marcht* clear, let the *Pikes charge*, and then your *Body* will have the *form* of a *Diamond* again. Next, [c] *face* them all to the *Reere*, and command, *Ranks, file 8 to the right*: which being done, paſſe thorow the *Muſquettiers* which belong to the *left-flanke*, into their places; and cloſe the *Muſquettiers* of the *right-flank* to their due *diſtance*: This done, they will ſtand all properly *reduced* into the *Square*, as at firſt.

[a] *Curioſity ſometimes not to be neglected, becauſe ſome men being therewith delighted, may thereby be gained to affect the practice of Armes, and after ſome continuance therein, may haply prove ſollid, and good Souldiers.* [b] *The Reducement.* [c] *This facing to the Reere, makes the Muſquettiers to be again in the Van.*

CHAP. LXXIX.

Of the Convex half-Moon: The uſe of the Figure; and of ſeverall wayes of firing upon it.

THe *Convex halfe-moon*, or *Semi-circular Battell*, is a *form* in it ſelfe both good and uſefull; which the time, the number, and place (with other circumſtance) may make either beneficiall or prejudiciall: wiſe *Captains* and *Commanders* ever fore-ſeeing with providence, what *forms* or *Figures* may be moſt *profitable* and *available* for the preſent *ſervice*. * This *Convex Figure* may be uſefull, either at the *landing* of *Souldiers* in an Enemies *Countrey*, or for neceſſity (the Enemy being more able in *Horſe*) making uſe either of *hedge, ditch, wood, creeke*, or *river*, to ſecure the *Reere*. For the *Figure* it ſelfe it may be made many wayes; either with the *Muſquettiers* outer-moſt, or inner-moſt, or lined, &c. at the diſcretion of the *Commander*. It may alſo be made in a *Regimentall* way, or after the way of a ſmall and private *Company*: But becauſe I have only in this my ſmall *Treatiſe*, taken upon me to ſhew the *Poſtures, Motions*, and *Figures*, which are moſt uſu-

* *The uſefulneſſe of this Figure.*

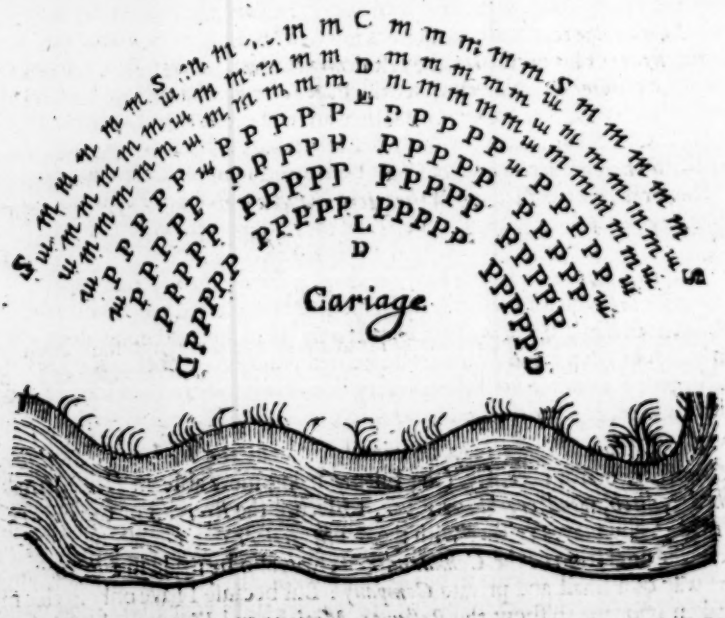
ally done in a ſmall *Company*, (although many of them, yea the more part, may be very fit for larger *Bodies*) I ſhall content my ſelfe to *ſaile* in ſo ſmall a *Bottom*; not deſiring to put on more *ſaile*, than will ſuffice for the *bearing* of ſo ſmall a *burden*. Wherefore my requeſt ſhall be, that every *curteous* and *skilfull Pilot*, that ſhall *come-aboard* this ſmall *Bark*, will be pleaſed, neither to *launch* it into the *main*, leſt it be *ſwallowed* in the *ſurges*; nor to *expoſe* it to the danger of *ſhelves*, *rocks*, and *ſands*, leſt it ſuffer *ſhip-wracke* for want of good *guidance*; but ſo to *ſteere* it, that it may ſafely *arrive* at its deſired *Harbour*: wherein they will both honour themſelves, in expreſſing their vertues; and gratifie me, by applying each *Motion*, *Figure* and *Forme*, to his right uſe, and true intention. I will now ſhew how the *Figure* is to be made, which is as followeth: If your *Battell* be in *form* of an *Hearſe*, then *wheele* them to the *right* or *left-about*, untill they have attained this *Figure*. But if in a *Square*, then obſerve theſe following *words*; which will produce the *Figure*:

The direction to make this Figure.

Wheel your Flanks into the Front; then face the Body to one of the Flanks; and wheel your Battell into a Convex halfe-Moon.

If your *Body* be *large*, then, inſtead of *wheeling the Flanks into the Front*, cauſe your *Muſquettiers* to *move forwards*, and place themſelves *before their Pikes*: Then command 5. or 6. of the *out-moſt Files* on each *Flank* (both *Muſquettiers* and *Pikes*) *to wheele*; thoſe on the *left-flank to the left*, thoſe on the *right-flank to the right*; the reſt of the *Body*, in the mean time, *moving forwards* to a convenient *diſtance*, and 5. 6. or more of the *outer-moſt Files* to *ſtand*, and then to *wheele to each hand*, as afore-ſaid; the reſt doing the like ſucceſſively, untill you have *formed* your *Figure*.

The Convex halfe-Moon.



Having

Having brought your *Souldiers* into this [a] *Convex forme*, you may face them all *inward* for *ſpeech*, or *outward* for *fight*. Then let the *Officers* make *Intervals* for the *Muſquettiers*; and let the *outer-moſt Arch*, or firſt rank of each diviſion, *preſent* and *give fire*, thoſe of the *right-flanke wheeling-off* to the *right*, the *left-flanke* to the *left*; placing themſelves in the *reere* of their owne diviſions of *Muſquettiers*, ſtill making good their *leaders* ground. The reſt of the *rankes* are to doe the ſame; untill they have all *given fire*. Nevertheleſſe, if your Enemy be too potent for you by reaſon of his *Horſe*, your [b] *Bow-Pikemen* need not ſtand idle, although they ſtand behind their *Muſquettiers*: for that they may ply them faſter with their ſhafts, then the others can with their ſhot; But if the [c] *Horſe* be ſo violent, that the *Muſquettiers* may not abide them, then let them *give fire*, and *wheel-off* by *diviſion*, as before; paſſing quite through their *Intervals*, and placing themſelves in the *reere* of their *Pikes*, every *ranke* making good their *leaders* ground. Thus alſo are the reſt of the *Muſquettiers* to *give fire*, placing themſelves in the concave part of the body, as aforeſaid, following in the *Reere* of the *Pikes*, which now make good the *Muſquettiers* ground. If [d] need be the *Pikes* may charge over-hand, or if occaſion ſerves at the foot, drawing forth their ſwords over their left-arms, and couching downe their heads: by which meanes the *Muſquettiers* may *give fire* over their ſhoulders. For the *firſt ranke* having *fired*, may kneel downe on the ground, and charge againe, the ſecond *ranke* may *give fire*, and kneel in like manner, making ready again. And ſo for the reſt, all *giving fire*, and kneeling on the ground, that ſo the next *ranke* behind may *give fire* over them. Thus continuing the *firing*, untill all the *Muſquettiers* have *given fire* once over. Nevertheleſſe, if the Enemy ſhall ſtill continue his charge, and preſſe upon you, the *firſt ranke* may riſe with the reſt, and *give fire* over again, as before. And ſo the battell may be continued; the *Pikes* ſtill keeping off the Horſe.

[a] *The ſeverall waies to fight upon this convex figure.*

[b] *The Bow and Pike very good and uſefull againſt the Horſe, in this figure of Battell.*

[c] *A good way in time of neceſſity, to beat off the inſolence of the Horſe.*

[d] *Another way to give fire by extraduction, as in the next Chapter.*

For the *reducement* of this figure, and to bring every man to his place, let your *Muſquettiers* (either *firing* or paſſing through) be brought into the *places* they were in, before they firſt *gave fire*, Then *face* the whole Body to one of the *flanks*, and martch them untill they have evened their *ranks*, and ſtraitned their *files*. This done, if all your *Pikes* bee on the *right-flanke*, *wheele your right-flanke into the midſt*, if on the *left-flanke*, *wheele front and reere into the left-flanke*. This being done, let the *Commander* paſſe to his proper *file-leaders*, and *face* the whole Body to him, and they are reduced as at firſt. If you did not *wheel your flanks into the front*; But your Body being large enough, *you drew your Muſquettiers before your Pikes*: Then having ranged your Body even a-breſt: *Command your Muſquettiers to open to the right and left, untill they are cleer of the Pikes, then face to the firſt-front, and martch up even a-breſt with the Pikes*, and they are *reduced* as at the firſt.

The Reducement.

CHAP. LXXX.

Of Extraduction: the ſeverall uſes, Firings, and Reducements.

THe next *Firing* which I ſhall take upon me to demonſtrate, ſhall be by way of *Extraduction*: which is alſo a *firing* in *front*. It may be to ſingular good uſe in a *ſtraight*, or *paſſage* where your *Wings* and *Reer* may be ſecured; your Enemy being ſuppoſed too powerfull and potent for you. Alſo if the contrary ſide *abound in Horſe* or foot; I ſhould then adviſe to draw ſome of your *Muſquettiers* into the *Reere* of your *Pikemen*, who may *give fire under the ſhelter of their Pikes*, being either *ported* or *charged*: And indeed I ſhall give this *Firing* by *Extraduction* this teſtimony. That of all *firings* (defenſive or offenſive) (thoſe of the *Half-pike* and *ſwines feather* excepted) it is the *beſt* and *ſafeſt againſt the Horſe* that yet I know of; each armes becomming the abſolute ſecurity of the other, and may be uſefull either in *ſmall* or *greater* Bodies. But this Chapter treats onely of a *party* or ſingle Company, and conceives it to be *chaſed* or *purſued* by *horſe*, but they having gotten into ſome *ſtraight*, there fill the mouth of the *paſſage* with your *Pikes*: and if the length

The uſe of this firing by Extraduction.

of your *Company* be not ſufficient to doe it, then double your *ranks* (as in this following *Figure*) and let your *Pikes* either *order*, *advance*, *port* or *charge*, according to the occaſion; your *Muſquettiers* being in the *reere*, may *martch up* into the *front* and *fire*. But before I ſhew the *Firing*, obſerve theſe following *directions*, which produce the *Figure*.

Pikes ſtand, Muſquettiers face to the reere, and martch, untill you are cleer of your body of Pikes.

Then face inward, and cloſe your diviſion: that thing done, face to your Leader, and double your ranks.

This being performed, the *Pikes* are all in *front*, the *Muſquettiers* in *Reere*.

A Firing by Extraduction.

Front.

S	M	M	M	M	M	M	M	M		M	M	M	M	M	M	M	S
	P	P	P	P	P	P	P	P	C	P	P	P	P	P	P	P	M
	P	P	P	P	P	P	P	P	D	P	P	P	P	P	P	P	M
	P	P	P	P	P	P	P	P	E	P	P	P	P	P	P	P	M
D	P	P	P	P	P	P	P	P	D	P	P	P	P	P	P	P	M	D
	•	•	•	•	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈	⋈		
	M	M	M	M	M	M	M	M		M	M	M	M	M	M	M		
S	M	M	M	M	M	M	M	M		M	M	M	M	M	M	M	S	

L.

Reere.

The Muſquettiers in this firing are to ſleeve up file-wiſe to the front, and there give fire in ranke, croſſe the front of the Pikemen.

The direction for this firing.

Having ordered your *battell* in this manner, let the firſt *ranke* of *Muſquettiers* (which are thoſe that follow next after the *Pikes*) *face* to the *right*, and *martch* forth (*file-wiſe*) up cloſe by the *right-flanke* of *Pikes*, untill he that is the *leader* of them be come into the *front* of *Pikes*, then he is to lead them quite croſſe the *front* of *Pikes*, untill he have attained the further part of the *front* to the *left*; which being done, they are all to *ſtand*, *preſent* and *give fire*. You muſt note withall, in this *firing*, that he which was the *right-hand-man* of the *ranke*, and was the *leader* of the *motion*, now becomes the *left-hand-man*, when he gives fire; and that having *fired*, they are to *wheel-off* to the *left*, cloſe to the *left-flanke* of *Pikes*, and ſo to fall in the *reere* of the *Musquettiers*. In the *interim*, whileſt that the *rank* which firſt fired is *wheeling-away*, the *ſecond rank* is *martching* into their *places* to *give fire*. And in this manner they may maintaine their *Battaile*, ſo long as they pleaſe: the *Pikes* either *porting* or *charging* all the whiles. The *Muſquettiers* in the time of their *croſſing the front*, are to couch or ſtoop under their *Pikes*; that ſo they may be no impediment to the *Pikes* in their *charge*. There is another way of *firing by Extraduction*, which is, that the *right-hand-leader* of *Muſquettiers*, *placeth himſelfe before the right file-leader* of *Pikes*: the reſt all falling beyond him: nevertheleſſe, becauſe I conceive it not to be ſo good a way as that already ſhewn, I will not trouble you with it: but come immediatly to the *reducement* of this, which is as followeth. Command your *Pikes* to ſtand, and your *Muſquets* to *double* their *front* by *diviſion*: but if you want roome to doe it, then firſt *double* your *files* to the *contrary hand* of that, which you *doubled* your *Ranks*; and ſo having *doubled* by *diviſion*, as aforeſaid, they will be *reduced*, as at firſt.

If the Pikes charge the Muſquettiers muſt give fire kneeling on the ground.

Another way of placing the Muſquettiers on this firing.

The reducement.

CHAP. LXXXI.

Of the Broad or long-fronted-Battell, with the wayes of firing upon it.

THe *broad or long-fronted-Battell* muſt needs be of ſpeciall uſe, for many occaſions, either *offenſive* or *defenſive*. Which becauſe it is ſo apparant to all, I ſhall not need to ſtand to reaſon with any; rather deſiring to ſhew the manner of *making* and

reducing

reducing it; which is as followeth: Cauſe your *Pikes* to *ſtand*, and your *Muſquettiers* to *march*, untill the *Reer-rank* of the *Muſquettiers* be *advanced* a little before the *firſt-rank* of *Pikes*; then let the *Muſquettiers face inward*, (or in *oppoſition*) and *cloſe their diviſions*; and then *face to their Leader*. And if you would bring more *hands* to *fight*, *double Ranks* to any *hand*, and the *Body* (for *form*) will ſtand like the *Figure* here next following. But the *ſpeedieſt way* (and I think the beſt, I am ſure with *expert Souldiers*) is to * *wheele* both *flanks* into the *Front*, which is the *way* intended by this *Figure*. For the manner of the *Firing* it ſelfe, you may partly perceive that there are *Intervals* made for each *diviſion*, to *wheel-off* to the *right*, that ſo they may either fall in the *Reere* of the *Muſquettiers*, and there continue the *Firing*; or elſe fall in the *Reere* of the *Pikes*, and be thereby *ſecured* from the *Horſe*. It may be done one or both wayes, according to the *occaſion* or *diſcretion* of the *Commander*. Nevertheleſſe, before I ſhew the *Firing*, obſerve theſe words of *Command*, which produce the *Figure*:

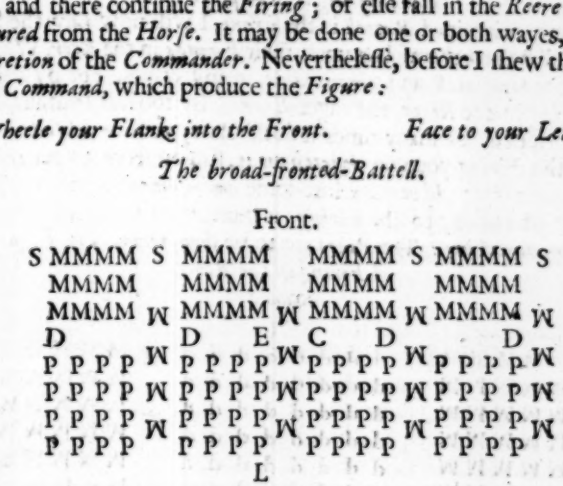
Direction to make the Broad-fronted-Battell.

**This wheelirg is intended but for a ſingle Company; for if there be more Companies, then the way firſt ſhewen is farre the better.*

Wheele your Flanks into the Front. *Face to your Leader.*

The broad-fronted-Battell.

Front.



The *firſt-rank* having *preſented*, and *given fire*, let them *wheel-off* to the *right*; all paſſing down the *Intervals* to the *right*, and placing themſelves in the *Reere* of their owne *diviſions* of *Muſquettiers*: the next *Ranks* of *Muſquettiers* making good their *leaders ground*, *firing*, *wheeling-off*, and placing themſelves as before. Having *fired* once or twice over this way, a ſecond way may be to place themſelves in the *Reere of their Pikes*, either *ſtanding* or *advancing*: the *Pike-men*, in the mean time, *clouding the clear skie*, with their *aiery Armory*. The *Muſquettiers* having all *given fire*, and placed themſelves in the *Reer*, if need be, the *Pikes* may *cloſe* their *diviſions*, and *charge over-hand*: and if the Enemy ſhall ſtill preſſe forwards, the *Pikes* may *charge at the foot*, the *Muſquettiers giving fire* over them, or by *Extraduction*, as in the laſt Chapter.

The directions for the Firing.

A ſecond way of placing the Muſquettiers, upon this Firing.

For *Reducement*, there are divers wayes by *Firing*; but becauſe I would make every thing ſo plain and eaſie, that thoſe that read for inſtruction, may receive benefit, it hath cauſed me to *reduce* each *Figure* by it ſelfe, and not to multiply one upon another, whereby to make them too ambiguous: And therefore, if you make this *Figure* by *wheeling your Flanks into the Front*, and then *fire*, as afore-ſaid, the *Reducement* may be, either to * *fire* them over again, and ſo to fall into their former places; and then to *wheel your Flanks into the Front againe*: and laſtly, *face-about to the right*, and they will be as before. Or elſe, if you would *reduce* them without *giving fire* over again, then command your *Muſquettiers*,

The Reducement.

** Note that the ſecond Firing will cauſe the Body to face to the Reere, which then becomes a Front-accidentall, and is the cauſe that the ſame command reduceth the Figure which firſt made it.*

tiers to *double your Front by diviſion*; that done, *wheel both Flanks into the Reere*, then *face to your Leader*, and command your *Muſquettiers* to *double your Front by diviſion again*, and they are as at firſt. If I ſhould proceed to ſhew the many and ſundry wayes of *Firings*, which may be done in *Front*, my Book had need to have as many *leaves* as *lines*; and yet all too little. But that I may keep my ſelfe to my *promiſe*, and my Book to its *compaſſe*, I will next come to ſhew ſome *Firings in the Reere*; and amongſt my *Diviſionall Firings* I ſhall inſert ſome other ſorts of *Front-Firings*, which here I have omitted.

CHAP. LXXXII.

Of Diſ-martching, or Firing in the Reere: the ſeverall wayes, and how they ought to be performed.

* *The benefit and uſe of firing in the Reere.*

HAving ſo long maintained *Battell* in the *Front*, I will now *face* them *about*, and ſee how they will behave themſelves upon their *Firings* in the *Reer*. Which kind of * *Firings* may be very *beneficiall* and *ſerviceable*, many wayes. For by keeping an orderly *Martch*, and *Firing* in the *Reere*, the eager *Enemy*, by too haſty purſuit, may be diſordered. Or, if it ſo happen, (as many times it doth) that you have a *diſadvantagious* place to *imbattell* on, by this *Firing* you may *martch away*, ſtill preſerving your *order* and *aray*, untill you have brought your *Adverſary* into ſome *ambuſhment*, or ſuch like *inconvenience*.

[a] *Wayes to come to firing in the Reere.*

For the [a] manner of coming to the *Firing*, it muſt either be by *facing-about*, *wheeling-about*, or *counter-martching*: The *Pikes* are to be *ſhouldered*. The *Figure* followeth:

A Firing in the Reere.

The direction for this firing in the Reere.

The *Body* being upon a *martch*, if the *Enemy* appeare in the *Reere*, let the *laſt-rank* of *Muſquettiers face-about*, and *give fire*; then *wheel-off* by *diviſion*, *file-wiſe*, *martching-up* toward the *Front*, and there placing themſelves before the *fore-moſt Ranke* of *Muſquettiers*, (the *two out-moſt men* of each *Rank* being the *leaders-up* of thoſe which have *fired*) who are the firſt that take their places on the *out-ſide*, the reſt *wheeling-about* them, and *ranking-even* with them on the *inſide*; ever obſerving, that they *range-even* with the *ſecond-rank* of *Pikes*. The reſt of the *Muſquettiers* alſo doing the like: and in this manner to continue the *Firing*, as occaſion ſhall require. Nevertheleſſe, of all the *Figures* and *Firings* that ever I have ſeen, this hath been the *worſt* performed in all places: which might eaſily be amended, if the *Souldiers* would obſerve this following direction; namely, when the *laſt-rank* of *Muſquettiers* have *preſented* to the *Reere*, and are *giving of fire*, the *Rank* which *martched* next before them, doe then * *blow*, *open*, and *preſent*, at three *motions*; ſtill keeping along *even with the Body*, untill that (laſtly) they *preſent* to the *Reere*; by which time, the *Rank* that *laſt fired* will be *wheeled-away*. The next *Rank*, ſo ſoon as the other

Note upon all firings in the Reere, to blow your coale ſtepping forwards with your right-foot. Open your pan ſtepping forwards with your left-foot; (a little inclining to that hand to which you are to face-about.) Preſent to the Reere ſtepping forwards with your right-foot.

hath

hath *preſented*, is likewiſe at *three motions* to doe the ſame: and ſo ſucceſſively, for all the reſt; every *ranke* obſerving, upon each *rankes firing*, to *loſe* one; and to *march* one *ranke* neerer to the *reere* of the *battell*, that ſo that part may ſtill be kept firme and abſolute.

This *giving* of *fire* towards the *reere* for *ſervice*, is to be continued according to the quality of the *place*, the *occaſion* for *fight*, and the diſcretion of the *Commander*. In *exerciſe* we commonly do it but once over; and then (if you pleaſe) you may make *Alt*, and *face* your *body about*, *giving fire* over again: and charging your *Pikes* upon it, if need ſo require, or at diſcretion of the *Commander*. Notwithſtanding, if the *Horſe* ſtill purſue you in the *reere*, you having gained ſome *ſtrait*, or *place* of *advantage*, may* *wheel* your *flanks* into the *front*, then *face* to the *reere*, and with your *charged Pikes* defend your *Muſquettiers*: which (the *body* being ſo *wheeled*) will be in the *reere*. The *body* ſtanding in this *form*, the *Muſquettiers* may *ſleeve-up* by way of *Extraduction*. The *manner*, you may perceive in the* *Chapter* which treats of that *figure*. If the *Horſe* ſtill preſſe forwards, cauſe the *Pikes* to *charge* at the *foot*; the *Musquetiers giving fire over them*, as in the **Convex half-moon*. Laſtly, to * *reduce* them, having thus *fired*, *command* them to *wheel their flanks into the front*, and to *face-about*, after their proper *file-leaders*, and they are *reduced*. * Sometimes, we *give fire* in the *reer*, having all our *Muſquettiers martching* in the *reer* of the *Pikes*. For the *manner* of the *motion*, it is as before: but for placing of the men, after they have *fired*, it may be different. As, to *wheel-off* by *diviſion*, placing themſelves in the *front* of the *Muſquettiers*, next behind the *reere* of the *Pikes*. Or if the *body* be large, to *wheel all off to the right*, *through Intervals*, and ſo to *martch into the front of Pikes*. Or elſe they may *wheel off by diviſion*, and *flank their Pikes*, and ſo *fire over againe*, as before. If you have brought your *Muſquettiers* (by *firing* to the *Reere*) before the *front* of *Pikes*, then to *reduce* them, you may either *wheel* the *body* about, and *give fire* in *front*, cauſing your *Muſquettiers* to *fall-off by diviſion*, and to *flanke* their *Pikes*, as you may perceive by the figure of the* *Demy-hearſe*. Or elſe, if you will *reduce* them without a *firing*, cauſe your *Muskettiers to open to the right* and *left*, and the *Pikes to martch-up in the midſt*: after which *facing* all to your *firſt-front*, they are as at firſt. I might have ſhewn a Figure for each of theſe ſeverall *firings* in the *Reer*, which would have delivered them with more variety: but I conceive that this here already expreſt, may ſuffice: eſpecially this being the ground of what may be ſpoken. Concerning *firings* in this nature, many men are of many minds, about this *firing* in the *Reer*. Some will have it, that the *laſt ranke*, ſhall at one *motion*, *face* to the *reere*: and there *preſent*, and *give fire*. Others will have it at two *motions*, but either of them have their inconveniences. For however they pretend *ſudden execution*, they are deceived: for would they make triall, by cauſing the *Muſquettiers* of one of the *flanks* to *give fire* at one *motion*; and the *Muſquettiers* of the other *flanke*, at *three motions*, (as I have here ſet downe) they ſhould ſoon find that the *firing* upon *three motions* were the beſt: and that the other would be caſt ſo far behind their *Body*, that they would be in ſome danger to be cut off. Beſides this, they are longer in *cleering* themſelves from their owne men, which all the while muſt ſtay, untill they are *martched-off*: or elſe kill them, in ſtead of the enemy, whereas in this other *firing* upon *three motions*, they ſtill *keep along* with their *body*, doing their *execution* more ſuddenly and more ſafely. Nevertheleſſe there be many ſo much wedded to their own wilfull opinions, that they will more willingly perſiſt in a knowne errour, then be ſeen to alter, what they have ſeemed to maintaine. But leaving ſuch to ſteer by their own compaſſe, I will here conclude my *firing* in the *reere*. And the next I ſhew, ſhall be *firings* in *flanks*: to which purpoſe, I paſſe all my *Muſquettiers* to the *right-flank*. The words of direction for it are theſe.

Muſquettiers of the right-flanke, open to the right (or face to the right, and martch.)

When they have opened to a ſufficient diſtance, then ſtand.

* *Wheeling of the flanks into the front or reere, is moſt uſefull for ſmall bodies.*

* *Chap. 80.*

* *Chap. 79.*

* *The reducement.*

* *A ſecond order of firing in the Reere.*

A reducement for this way of firing in the Reere.

* *In cap 76.*

Many diſſenting opinions concerning firings in the reer.

Firing at three motions to the reere the beſt.

There is no error, which hath not ſome ſlippery and bad foundation, or ſome appearance of probability, reſembling truth.

Muſquettiers of the left-flanke, paſſe thorow between your ranks of Pikes, to the Intervall on the right-flanke: Then ſtand, and face all to your Leader.

CHAP. LXXXIII.

Of Firings in flank, in generall, and more particularly, of the gathering firing.

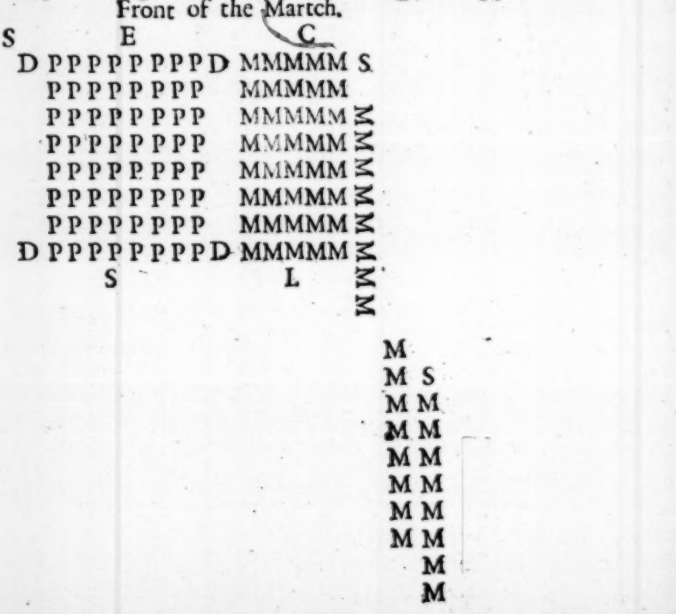
THe *Muſquettiers* being all on the *right-flanke*, (as in the laſt Chapter is directed) it would be needleſſe to make a Figure, whereby to demonſtrate the ſtanding of the Body, ſeeing that none can be ſo ignorant, but muſt needs know that all the *Muſquettiers* being upon the *right*, the *Pikes* muſt be upon the *left*. Nevertheleſſe, I ſhall endeavour to ſhew what is meant by *firing in flanks*. (Which for the generall) are of theſe two kinds. The firſt is, when the *enemy skirmiſheth with us in flanke as we martch*, the other when as by ſome ſudden attempt or ambuſhment, the *party*, *diviſion*, or *whole Body* is engaged, and ſo forced to *ſtand*, and *face* to the *right*, or *left*, or both: By which *facings*, the *flanks* become *fronts accidentall*, and their *firings* will be after the ſame manner of the *firings in front*. Wherfore ſeeing I have already ſpoken ſufficiently of them, I will now ſhew *firings in flanks, martching*; the particulars whereof are as followeth. * The firſt is for the *outmoſt-file* to *give fire*, and ſtand, untill the next *file* have *fired*, which by ſome is called, the *gathering Firing*. Secondly, *Firings* in *flanke*, and leading them up between the *Muſquettiers* and *Pikes*. *Firing* in *flanke*, being led off by the *bringers-up*. *Firings* in *flanke*, ſleeving up on the contrary *flanke* of *Pikes*. *Firing* in *flanke*, and drawing them up between the *innermoſt files* of *Pikes*. * All theſe *firings in flank*, are to be performed upon a *martch*, the *Pikes* are to be *ſhouldred*. Our firſt *firing in flanke* followeth.

What is meant by firing in flanke.

**The divers and ſeverall wayes of firings in flanke martching.*

**Upon all theſe firings in flanke martching, the Pikes are to bee ſhouldred.*

The Command is, *Muſquettiers, give fire to the right: and gather up your Files.*



This *firing* on the *flank*, I have ſeene, and known uſed, by many good and able Souldiers: Nevertheleſſe, in my opinion, the men ſtand in a great deale of danger, when having *given*

firſt,

fire, they can doe no good, but ſtand like ſo many marks for their *Enemies* ſhot. Notwithſtanding, it may be that ſuch, whom I have frequently ſeen to uſe it in their practice, may be able to render good reaſons for the ſervice; though as yet I cannot conceive it. I will therefore forbeare any further to proſecute my opinions, and ſhew the manner of execution; which is to be performed as followeth: The *Command* being given to *Fire to the right martching*, preſently the *outer-moſt file* to the *right faceth outward*, and *preſents*, the reſt of the *Body* ſtill *martching* forwards: Then the *preſented File gives fire*, and ſtands, *facing* again to their *firſt-front*: By that time, the *Body* will be *marched* clear of the ſtanding *File*, then the next *outer-moſt file*, *preſents* and *fires* in like manner, the *Body martching* as before: Having *fired*, they in like manner *face* to their *firſt-front*, and ſtand; a *Serjeant* leading-up the *File* that firſt *fired*, on the *out-ſide* of the *File* that laſt *fired*: then they ſtand both together, untill the third *File* hath *given fire* after the ſame manner; and then the *Serjeant* leads-up the two *Files even* with the third, which laſt *fired*. After this manner the ſeverall *Files* of *Muſquettiers face* to the *flank*, *give fire* ſucceſſively, and ſtand, untill the *Serjeant* leads-up the reſt of the *Files*, which formerly *fired*, *even* with the *Front* of the *File* which laſt *fired*. Thus having all *fired* over, they are to *martch-up* again, *even* with the *Front* of *Pikes*, and this *reduceth* them, as at firſt.

The direction for this firing.

CHAP. LXXXIV.

The ſecond manner of giving fire to the Flank.

IF you would *fire* in *flank*, a more ſecure way then that laſt ſhewen, take this way of *Firing*; the which ſhall be full as *ſerviceable* for matter of *execution*, and ſhall farre precede it in way of *preſervation*, both in *ſecuring* the *Muſquettiers* (after they have *fired*) from the danger of their *Enemies ſhot*, as alſo in continuing the *Body intire* without ſeparation. It is eſpecially uſefull, when two *Enemies* are *divided by a River*, or by ſome ſuch like meanes ſecured from the *incurſions* of the *Horſe*: For then, by this way of *drawing* the *Muſquettiers* up between the *inner-moſt file* of *Muſquettiers*, and the *outer-moſt file* of *Pikes* to the *right*, your *Battell* may be continued according to the occaſion, or the *Commanders* diſcretion. The *Figure* followeth: The *Command* is,

Muſquettiers, give fire in Flank, martching-up between the Pikes and Muſquets.

The direction for this firing.

The way to performe this *Motion* of *Firing*, is as followeth: The *outer-moſt file* being commanded to *face to the right*, and *preſent*, the reſt of the *Body martcheth* away, as in the other *Figure*, and the ſtanding *file gives fire*. This done, and that the *Body* is *martched* cleare of the ſtanding *file*, the next *file preſents* to the *right*, and the *file* that firſt *gave fire faceth* to the *firſt-front*, and is led by a *Serjeant croſſe the Reere of Muſquettiers*, and up betweene the *Muſquets* and *Pikes*; the *Muſquettiers* are ſtill to *open* to the *right*, as they *martch*, that ſo there may be *roome* for one *file* to *martch-up* betweene them and the *Pikes*. And ſo (ſucceſſively) each *File* having *fired*, *martcheth-up* next unto the *right-flank* of *Pikes*. When all your *Muſquettiers* have *given fire* once over, they are *reduced* as at the firſt. The *Battell* may be continued, at diſcretion. The next *Firing* in *Flank* (for the manner of *execution*) will be all one with this; the difference will be in the *wheeling-off*, and *placing* the *Muſquettiers* after they have *fired*.

The firing being performed once over, they are reduced as at firſt.

CHAP. LXXXV.

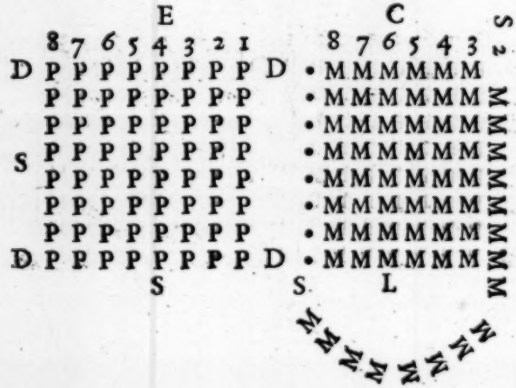
A Firing in Flank, led-off by the Bringers-up.

THe next *Firing* in *Flanke*, which I propound to your peruſall, will be nothing differing for *manner* of *execution*, from the *Firings* in *flank* formerly ſhewed: The onely *difference* ariſing between them, is, That the *other Files* of *Muſquettiers*, after that they had *given fire*, were *led-off* by their *proper-File-leaders*; and this, to the contrary, muſt be *led-off* by their *Bringers-up*. And this indeed, if the *Body* be upon a *ſlow Martch*, is the *readieſt* and *quickeſt* way; and doth more ſpeedily ſecure the *Muſquettiers*, after they have *given fire*. The words of *Command* and *Direction* which produce the *Firing*, are as followeth:

The uſe of this firing in flank.

Muſquettiers, give fire to the right, wheeling-off after your Bringers-up, and placing your ſelves between your diviſions.

Front.



The direction for the Firing.

For the manner of *execution*, or way to perform this *Firing*, it is as followeth: The *Body* muſt be conceived to be *martching*, upon all theſe *Firings* in *Flank*, and that with their *Pikes ſhouldred*: This being preſuppoſed, the *Command* being given, the *outer-moſt file*

file preſents to the right, and *gives fire*; then *faceth to the right*, after their *Bringers-up*, who leadeth them off, croſſe the *Reere* of *Muſquettiers*, *martching them up* between the *diviſion* of *Pikes* and *Muſquettiers*, the *Bringers-up* ſupplying the *File-leaders* place, and *martching even* in *Rank* in the *Front* with the *File-leaders*; the *File-leader* of the ſame *file* becoming the *Bringer-up* in the *Reere*. The *files* of *Muſquettiers*, or *Pikes* (according as the *Command* ſhall be given) are, as they *martch*, to *open*; thereby giving way to the *Muſquettiers*, after they have *fired*, to *come-up* between the *diviſions*; and ſo ſoon as the *firſt-file* that *fired* is cleare from the *right-flanke*, the *ſecond-file preſents*, and *fires*; in like manner *wheeling-off*, as before, and *martching-up* between the *Pikes* and *Muſquettiers*; every *file* ſucceſſively *giving fire*, and *wheeling-off* as afore-ſaid. This *Firing* may be performed *once*, *twice*, or *oftner over*, according to the diſcretion of the *Commander*. Nevertheleſſe, if it be *twice* performed, the men are *reduced* as at firſt; every man having his right *place*. If you *fire* them but *once*, or *thrice* (or any odde number of *times*) over, then you muſt *counter-martch* your *Files* of *Muſquettiers* to *reduce* them. There is another way for the *Bringers-up* to *wheel-off*, and each of them to *lead-off* his *File*, untill hee comes to the *Reere* of the *diviſion* which is between the *Muſquets* and the *Pikes*; and there hee is to *ſtand*, and *rank* with the *Bringers-up*; the reſt that follow, *paſſing-on forwards*, by way of *Introduction*, and every man *ranking* before him that was his *leader* in the *wheeling-off*, untill the *proper-File-leader* be come into his *place* again. And after this *way*, they may *give fire*; each *Firing* being his own *Reducement*.

The firſt firing is reduced by doing the ſame over againe.

Another way of placing the Muſquettiers, when they are led-off by the Bringers-up.

CHAP. LXXXVI.

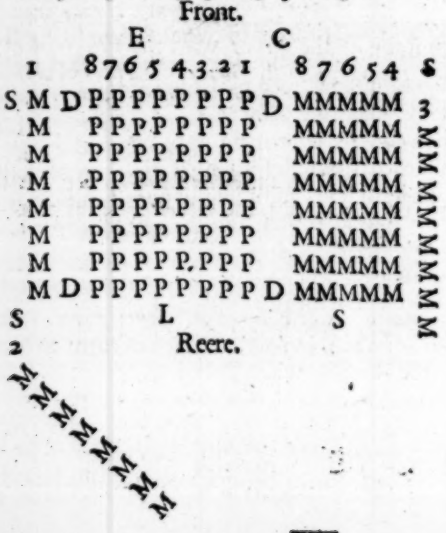
The differences between Firings in Flank, martching; and of bringing the Muſquettiers on the out-ſide of the Pikes.

ALl, or the moſt part of the *Firings* in *Flanke*, which are performed *martching*, in point of *execution*, are the ſame: the eſpeciall difference between them, being either in the *manner* of the *wheeling-off* after they have *fired*, or in the *materiall placing* them, whereby to make them more *offenſive* or *defenſive*. And this appeareth by the next following *Firing*; which is to be uſed at ſuch time and place when as there may be doubt of the *Enemies Horſe*: And therefore, for the more ſecurity of the *Muſquettiers*, after they have *fired*, they are to be *drawn-up* on the *outer-ſide* of the *left-flanke*; if * haply there may be ſome *hedge*, *ditch*, *river*, *hill*, *marſh*, *wood*, or ſuch like convenient *ſafe-guard*, whereby to ſhroud them from the *fury* and *violence* of the *Horſe*; that ſo the *Pikes* making *Alt*, and *facing* to the *Enemy*, may *charge*, and with their *armed points* (ſtrongly and cloſely coucht) *receive* and *abate* the *fury* of the firſt *ſhock*. [a] And, if need be, the *Pikes* may all *charge* at the *foot*, cloſely *ſerried* together, with their *ſwords* drawn, and the *Muſquettiers* may *give fire* over them. But leſt I *anticipate* my ſelfe in ſhewing the *uſe*, I will returne to ſhew the *manner* of the *Firing*, intended by this following *Figure*: Onely firſt take the *words* of *Command* and *Direction*, which are as followeth;

* *Scituation of place, often affords good help in time of need, to the artfull and induſtrious Soaldiers.*

[a] *Or elſe a better way is, to give fire by extraduction; as in* Chap. 80.

Muſquettiers, give fire to the right: placing your ſelves on the out-ſide of the left-flanke of Pikes.



The direction for this firing.

The *outermoſt files* having *preſented* to the *right*; the reſt of the *body* continueth the *martch*, whileſt they in the mean time are *giving fire*. Which being done, and the *body cleer*, the next *outermoſt file preſents*: the *file* that *laſt fired*, in the interim, *facing to the left after their proper file-leader*; who *leadeth* them croſſe the *Reer* (both of *Muſquets* and *Pikes*) a prettie round pace, *ſleeving-up* on the out-ſide of the *left-flanke* of *Pikes*. The next *file* having in like manner *fired*, doth alſo *troop-up* on the out-ſide of the *file*, led off before; every *file giving fire*, and doing the like. When all have *given fire*, and are *cleared away*, then the *Pikes* may charge; which is very neceſſary to accuſtome the *Souldiers* unto in times of *exerciſe*, both for *charging on*, and *retreiting*, as alſo to puſh with their *Pikes*, that ſo by practiſe they may be able to doe it *orderly*, either way: ſtill keeping their *order* and *array*. Having *given fire* upon the *right-flanke*, and drawn all your *Muſquettiers* in this manner to the *left-flanke*, if you will cauſe them to *give fire* on the *left-flanke*, and bring them backe againe to the *right-flanke*, they will be *reduced*. Or if you would reduce them without a *firing*, then either paſſe your *Muſquettiers* thorow betweene your *ranks* of *Pikes*, or elſe let your whole *diviſion* of *Muſquettiers* be drawn croſſe, either the *front* or *reere* of *Pikes*, into their places: or by *diviſion* (if you pleaſe.) Your *Muſquettiers* alſo may *give fire* in *flanke*, the *firſt file ſleeving up* on the *left-flanke*; the reſt of the *files*, ſtill falling between the *Pikes*, and the *Muſquettiers* which *wheeled-off* the laſt before them. And this is alſo a very good *firing*, and may be *reduced* with doing the like back again, and many other waies: they may alſo *fall-off* after the manner of the *Figure* laſt ſhewn: being *led* by their *bringers-up*, either into the *front*, or elſe after the manner as is diſcourſed in the latter end of the laſt Chapter. But I endeavour all I may, to contract my matter, leſt my *Volume* ſhould exceed my intent. And therefore I will ſhew but one *firing* more in *flanke* upon a *martch*, wherewith I will conclude theſe ſorts of *Firings*.

It is good to accuſtome the Pikes to charge.

They may be reduced by interchanging of flanks.

CHAP.

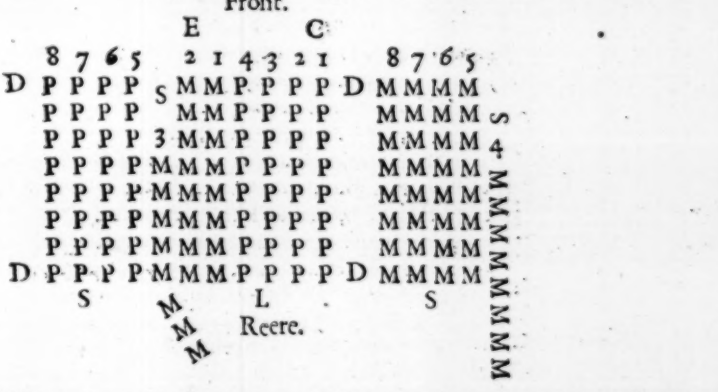
CHAP. LXXXVII.

Of Firing in flanke, and placing the Muſquettiers in the midſt of the Battell of Pikes: with other Firings from thence proceeding.

The uſe of this firing.

Firing in *flanke*, and bringing them *off* between the midſt of *Pikes*, is to be uſed at ſuch time, when as you would ſecure your *Muſquettiers*: the place (otherwiſe) affoording no *naturall convenience* of ſuccour, ſuch as I have formerly ſpoken of: and therefore by this manner of *falling-off*, where we want *naturall aſſiſtance* in the *ſcituation*, there *art* ought to ſupply us; namely, by contriving to bring up the *Muſquettiers* betweene the *Pikes*, and ſo to defend them from the fury of the *Horſe*. And; if need be, you may *draw* 3. or 4. *Files* of *Pikes* (more or leſſe, according to your *number*, or the *danger*) *croſſe* the *Muſquets* both in *front* and *reere*, which are in the midſt between the *Pikes*, which will as well preſerve the *Muſquettiers* in *front* and *reere*, as in *flanks*. But leaving further to diſcourſe, what may be done; I will now ſhew how this is to be done. Onely firſt take the *words* of *Command* and *direction* for the *firing*, as followeth.

Muſquettiers, give fire to the right: *martching up betweene the midſt of Pikes.*



The direction for this firing.

The *Command* being given, for the *outer-moſt file* to *preſent* to the *right*, as (formerly in the other *firings* in *flanke*) the reſt of the *body* ſtill *martcheth* on, untill that the *outer-moſt file* hath *fired*, and is *faced* to the *left* again, following their *leader*. He now leading them *off* to the *left*, *martcheth-up*, betweene the *middle-moſt files* of *Pikes*; who are then to *open* to the *right* and *left*, ſo to give them roome to *martch-up* between them: In the meane time, the *next file* having *given fire*, *wheeleth-off* in like manner, *martching-up* on the *left* of the *file*, which *fired* laſt before them. And ſo ſucceſſively, for all the reſt of the *files* of *Muſquettiers*, all which are to *give fire*, and to *wheel-off*, as aforeſaid, placing themſelves ſtill on the *left* of the *files* which *laſt fired*. Wherein is ſtill to be noted, that the *files* of *Pikemen* are ſtill to open to the *right* and *left*, and that for the receiving of the *Muſquettiers*, after that they have *given fire*. This *Firing* (as all other the *Firings* in the *flanke*) may as well be *led-off* by their *bringers-up*, as by the *file-leaders*: and then the *reducements* will be anſwerable. The *Muſquettiers* having all *fired*, the *Pikes* may *charge* at diſcretion. The *Bow-Pikemen*, which are in the *reere* of the *Muſquettiers*, in the meane time not ſparing to ſend their *ſhowers* of *arrowes* amongſt the thickeſt of their *Enemies*, and if need require, the *front* of *Pikes charging* at the *foot*, with their ſwords drawn; The *Muſquettiers* may *give fire over them*, *ranke* after *ranke*; for the *foremoſt ranks* having *fired*, may kneele upon the ground; and there *make ready* again: untill the other *ranks* behind

Whileſt the firſt diviſion of Pikes charge, the reer diviſion of Pikes (having bowes) may doe good ſervice againſt the horſe.

hind them have likewiſe *given fire.* After this manner the *Battell* may be continued: according as occaſion ſhall require. For *Reducement*, and to bring the *Muſquettiers* into both *Flanks* again, as they were before I began theſe *Firings* in *Flanke*; Command your *Pikes* to *face-inward*, and your *Muſquettiers* to the *right* and *left out-ward*, and ſo to paſſe thorow, and *interchange ground*; then *facing* them to their *Leader*, they will be *reduced* as at the firſt. I would have the ingenious *Reader* to conceive, that all theſe *Firings* in *Flank* may as eaſily be performed to the *left*, and with the ſame *words*: only, the *words* of *Right*, muſt be changed for *Left*; and *Left* for *Right*. I might have further enlarged my ſelfe upon *Firings in Flanke*, but theſe already expreſt, may ſuffice for to inſtruct the ignorant. As for the skilfull and experter ſort of *Souldiers*, I ſhall rather requeſt their approbation, than preſume to write ought which may ſeem to paſſe me with the leaſt conceit tending to their inſtructions. Wherefore, for the further proſecution of my intended diſcourſe, I will next ſhew ſome *Diviſionall Firings*. And (for *method* ſake) I will firſt begin with *Firings in Front and Reere*: which may be performed either *martching* or *ſtanding*. And to that end, ſuppoſe your *Muſquettiers* to *martch* all in *Front* and *Reere*. Nevertheleſſe, becauſe it will not be amiſſe to ſhew with what *words* of *Command* and *Direction* the *Muſquettiers* may be brought thither, therefore take notice from what part of the *Body* they are taken: And if they be in the *midſt*, (as by this laſt *Firing* in *Flanke* they were brought) then *command* the *halfe-files* of the *Muſquettiers to face-about*; which done, let the *Pikes ſtand*, and the *Muſquettiers martch*, untill they are *cleare* both of *Front* and *Reere* of *Pikes*; then let them *ſtand*, and *face* to their *Leader*: which being done, your *Battell* will ſtand in *form* of an *hollow ſquare*: In which *hollow*, may be conveyed any *carriage*, or ſuch like. But if you will not have your *Battell hollow*, then *command* your *Pikes* to *cloſe* their *diviſions*, and the *Muſquettiers* will be all in *Front* and *Reere*. If your *Muſquettiers* be on the *Flanks*, and you would bring them into the *Front* and *Reere*; then, after the ſame manner, let the *halfe-files* of *Muſquettiers face* to the *Reere*; and then, both *halfe-files* of the *Front* and *Reere*, *martch*, untill they are cleare of the *Angular Pike-men*: This done, let them *face* in * *oppoſition*, and *cloſe* their *diviſions*; after which, having *faced* all to their *Leader*, they will be rightly placed: namely, the *Front-halfe-files* of *Muſquettiers* before the *Front* of *Pikes*. Thus will the *Battell* be ſomewhat near the *form* of an *Hearſe*, and the *Muſquettiers* be ready to *give fire* to the *Front* and *Reere*, either *martching* or *ſtanding*. But before I begin my *Diviſionall Firings*, I would intreat you not to expect, that I ſhould *reduce* every particular *Firing* ſo ſoon as it is performed, as I have done by theſe hitherto ſhewed; but rather let it be ſufficeable to your likings, that I *reduce Firings* by *Firings*; ſometimes *giving fire* upon a *Martch*, ſometimes upon a *ſtand*, ſometimes to the *Front* and *Reere*, ſometimes to both *Flanks*. I doe the rather deſire to goe in this way, becauſe thereby I may expreſſe far more matter in fewer lines, and ſhorter time.

The reducement.

The direction how to bring the Muſquettiers to the Front and Reere; either from the midſt or flanks.

** That is, the Front-halfe-files of Muſquets face inward, and the reer-halfe-files of Muſquettiers face inward; then cloſe together, before the Front and behind the Reere of Pikes. Your Figure takes the denomination of a Hearſe, when the depth doth manifoldly exceed the length, which muſt be thrice at leaſt.*

CHAP. LXXXVIII.

Of Firing to the Front and Reere, upon a Martch.

THe *Muſquettiers* being all placed in the *Front* and *Reere* (according to the directions in the laſt Chapter) I will now ſhew the manner of *Firing* to the *Front* and *Reere*, upon a *Martch*. Which howſoever that it may be rare, and ſeldome uſefull in ſervice, yet it muſt needs be excellent for *practice*: For by the often uſing it, the *Souldier* may be made capable of any *Firing*. The *Pikes* (you are to underſtand) are to be *ſhouldred*. The Command for the *Firing* is,

Muſquettiers, give fire to the Front and Reere, and flank your Pikes.

The *Command* being given (as above-ſaid) the *firſt-rank preſents*, the *laſt-rank faceth-about to the Reere*, and doth the like; and ſo both *giving fire* together, *wheel-off by diviſion*; the one *halfe* of the *Rank* following after the *right-hand-man* of the ſame *Ranke*, the other *halfe* after the *left-hand-man*, who leads them cloſe down by the *ſide* or *flank* of the *Muſquettiers*, untill they come to the *Pikes*. The *firſt-rank of Muſquettiers now ranking even with the firſt-rank of Pikes*; *the laſt-rank of the Muſquets, with the laſt-rank of the Pikes*; leaving a ſufficient *intervall* betwixt them and their *Pikes*, for the other *Muſquettiers* to *martch* between. And here you muſt note, that he that was *outer-moſt* when they *gave fire*, muſt likewiſe be *outer-moſt* when they have taken their *places on the Flanke*. The *firſt* and *laſt-ranks* having *fired* and *wheeled-off*, the next *Ranks* (*martching-on* as before, the *firſt-rank eight or ten paces before the Front*, the *laſt-rank* at *three ſteps to the Reere*) are in like manner to *preſent*, and *give fire*, *wheeling-off* by *diviſion*, and paſſing between the *diviſions*, [a] there placing themſelves, they of the *Front-diviſion behind* thoſe which *fired* laſt *before* them, and they of the *Reere-diviſion before* them which *fired* laſt *behind* them; and ſo they may continue to *give fire*, untill they have all *fired* once over. Then may the [b] *Body make a ſtand*, and the *Pikes charge to the Front and Reere*, if need be: Or if the *Commander* would continue his *Firing* to the *Front* and *Reere* ſtill, upon the ſame *Figure*, then let the *Muſquettiers* of the *Front* place themſelves (after they have *given fire*) *behind the Muſquettiers of their owne diviſion*; thoſe of the *Reer-diviſion*, placing themſelves *betwixt the Reere of Pikes, and the Muſquets of their owne diviſion*; and ſo the *Body* moving but ſlowly forwards, they may continue the *Firing*. Having *given fire* to the *Front and Reere*, and *flanked their Pikes*, if the occaſion offer, or the *Commander* pleaſe, they may *give fire* to the *Front and Reere* upon that *Figure*; which indeed I hold the better: as you may perceive in the enſuing Chapter.

The direction to the Firing: wherein you are to note, that the Muſquettiers who are to fire in Front, are to move nimbly 8. or 10. paces before the reſt of the Body, that ſo they may have fired and wheeled away before the reſt of the Body be ſo farre advanced. But if your Body be large, ſend a diviſion before, which will be the Front and Reere.

better way. [a] *Note this direction.* [b] *If need be the Body may make Alt, and charge to the Front*

CHAP. LXXXIX.

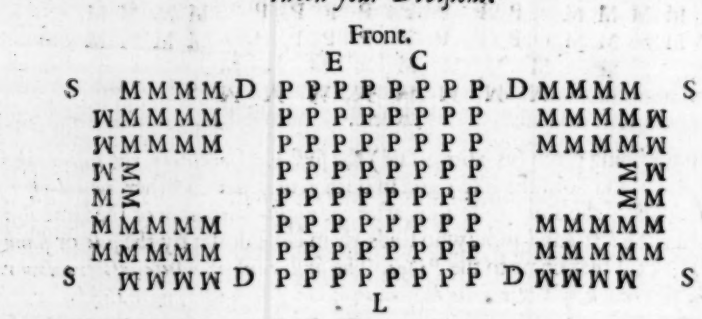
A ſecond way of Firing to the Front and Reere.

THis ſecond way of *Firing* to the *Front* and *Reere* upon a *Martch*, may eaſily be performed, if the *Souldiers* be well and often inſtructed: Without which, all matters in the *Art Military* will ſeem difficult; and by which, all things will be made facile and eaſie. I could inſtance in divers *Motions* and *Figures*, by ſome reputed ſuperfluous niceties;

which were the true uſes known to the *Commander*, and the way to execute to the *Souldier*, would be found to be of ſingular good ſervice. Nevertheleſſe, becauſe to the * *Ignorant*, nothing beyond their capacities may ſeem excellent, many good and ſerviceable *Motions* are ſlighted, and not accounted fit for ſervice. But I could well wiſh, that ſome good courſe might be taken, that the *Souldiers* of our *Trained Bands* might have a little oftner *practice*, that ſo they might be able (at leaſt in ſome reaſonable way) to underſtand and *exerciſe* what ſhall be commanded them. But I have ſtrayed from the matter; and therefore take theſe words of *Command* and *Direction*, which being orderly executed, produce this *Figure* following:

* *Ignorant Souldiers account thoſe things niceties which they underſtand not.*

Muſquettiers, give fire to the Front and Reere, placing your ſelves between your Diviſions.



The direction for this firing to the Front and Reere.

The way to performe this *Firing* is as followeth: (the Command being given) The *firſt-rank advanceth* 8. *or* 10. *paces before the Front of the Body, there preſenting, and firing: the laſt-rank of Muſquettiers, in the interim, preſenting at three motions to the Reere, and there in like manner firing:* which done, they are to *wheel-off to the right and left*, placing themſelves *between the Muſquettiers of their own diviſions.* Thoſe, namely, which were of the *Front-halfe-files*, falling into the *Reere* of their own *diviſion*; thoſe of the *Reer-halfe-files* (contrariwiſe) falling *before their halfe-file-leaders*, and *ranking-even* with the *halfe-file-leaders* of *Pikes*; the next *Ranks*, ſucceſſively, *firing* and *wheeling-off* after the ſame manner. *Having fired once over, they are reduced, every man to his place.*

The reducement.

Theſe two laſt *Firings* to be performed upon a *March*, would ſeem very difficult to *unexperienced Souldiers*; but by often exerciſing they may be made capable of theſe, or of any other. Nevertheleſſe, the *ſpeciall uſe of this Firing* is for ſmall *Bodies, being charged in Front* and *Reere* by *diſbanded Squadrons*, or *ſmall parties:* But if your *Body* be *large*, the beſt way will be to ſend out a *conſiderable number* of *Muſquets* and *Pikes* before, *to beat-off the Enemy:* or if they be not able to beat him off, then to *hold him up*, untill you have *made good your Retreit*, and can either *reinforce* them with a *new ſupply*, or *relieve them* by bringing of *freſh hands* to maintain the fight.

CHAP. XC.

Firing to the Reere and Right-flank marching.

HAving already ſhewen *Firings in Front, Reere, and Flanks*, (ſome *marching*, and ſome *ſtanding*.) I will now ſhew one *Firing* to the *Reere* and *Right-flanke*, upon a *March:* The which, without all queſtion, muſt be very ſerviceable, at ſuch times as the obſequious and vigilant Enemy ſhall find ſome opportunity to *skirmiſh with the Body*, ſeeking to annoy them in their paſſage or *march*, *charging* them in the *Reer* and *Flank* at one

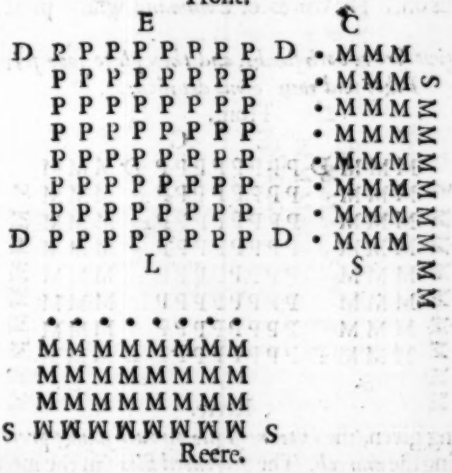
The uſe of this firing.

and the ſame time. I ſhall not need with arguments to enforce the uſefulneſſe of the *Firing*, for none that knowes any thing in the *Art Military*, but will ingeniouſly confeſſe, that in time of *motion, either advancing, or retreiting out of an Enemies Countrey*, they ſhall be ſure upon all *advantages* to be waited upon by Enemies, *charging in this nature.*

I might be infinite in examples of this kind, both ancient and modern, but my intent is not to write a Hiſtory, every houſe and ſhop being ſufficiently ſtor'd with Works of that nature; and my task being onely a few directions, for the better improvement of the exerciſe of *Foot-Companies*; the which I have hitherto endeavoured to keep my ſelfe cloſe unto, and not flown out into extravagant and *forraign* Diſcourſes: although I cannot deny, but that the ſeaſonable recitall and intermixture of *Hiſtory*, would much have *beautified* and *imbelliſhed* the *Worke*, as delivering it more fragrant to the ſenſe, and conducing, with more delectation, to the benefit of the memory. But it is not my intent to raiſe my labours to ſo large a Volume; nor indeed can I ſpend ſo much time from my more neceſſary affairs; but ſhall reſt well contented, to leave ſuch large labours to the abilities of the Learned, who with their artfull Inventions may be able to garniſh out their works with more attracting tearms; whileſt I, in the mean time, according to the meaſure of my talent, proſecute my enſuing Diſcourſes.

You may (if you pleaſe) fire to the Flank and Reere, your Muſquettiers being in their ordinary places, on the Flanks of their Pikes. Nevertheleſſe, a *ſecurer way* for the *Pikes* will be, to draw the *Muſquettiers from that Flank* which is in leaſt danger, *croſſe the Reer of Pike-men.* And this ſhall be the way I'le obſerve in this *Firing.* The words of *Command* are as followeth: *Wayes of firing to the Flank and Reere.*

Muſquettiers, give fire to the Right and Reere, placing your ſelves between the Pikes and your own diviſions.



The *Command* being given (to *fire to the Reere and Right-flank*) the *outer-moſt file of Muſquettiers preſent to the Right, and the laſt-rank of Muſquettiers preſent to the Reere, both give fire*; the reſt of the *Body*, in the mean time, *martching* a reaſonable pace: The *right-hand-file and laſt-rank* having *fired*, the *file faceth* to the *left*, after their *File-leader*, and ſo *martcheth-up* between the *Muſquettiers* of the ſame *diviſion*, and the *Pikes*; *The direction for this firing.*

If there be too many to wheele-off together, then make one interval, or more as the occaſion requireth. The reducement.

the *rank wheeling-off* to the *right*, and placing it ſelfe next after the *reere* of *Pikes*, and before the firſt *ranke* of *Muſquettiers* of the ſame *diviſion*. If you pleaſe, you may make an *Intervall* between the *Muſquettiers*: that ſo part may *wheel-off* to the *right*, on the *outſide*, and the other part *wheel-off* to the *right*, and *march-up* between the *Intervall* into their places. The firſt *file* and *rank* that *preſented*, having *given fire*, and *wheeled clear off the Body*, the next *File* and *ranke*, *preſent*, and *give fire*; after the ſame manner *wheeling-off*, and taking their *places*, as aforeſaid: and ſo ſucceſſively, the reſt (both *files* and *ranks*) *give fire*, obſerving the ſame order. And having *given fire*, *once*, *twice*, or *oftner* over, they are ſtill *reduced* to the ſame they were before the *firing* began. Then *draw* your *Muſquettiers* from the *reere*, to the *left-flanke* again; and they will have their places as at firſt.

CHAP. XCI.

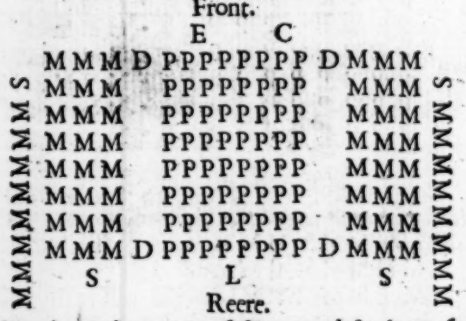
Of firing to both flanks, martching.

FIrings, to *both flanks* and *martching*, without all peradventure are as requiſite to be *practiſed* in times of *exerciſe*, as neceſſary to be *uſed* in times of *danger*: when the *politicke* and *nimble enemy*, ſhall lie beating upon your *flanks*, therby ſeeking to *diſtreſſe* you in your *paſſage*, or *force* you to *Alt*, perhaps to your greater *diſadvantage*. For the *manner* or *way* to perform the *firing*; it muſt have reference to the *time*, *number*, *place*, and ſtrength of the *enemy*: with other like circumſtances conſiderable, by the *diſcreet* and *well-adviſed Captain*: and accordingly to *draw-off* his *Muſquettiers*, either for *ſecurity*, or *advantage*. Sometimes placing them between their own diviſions and the *Pikes* (as in this following *firing*) at other times, placing them * between the midſt of their *Pikes*, the better to ſecure them.

* *As in Ch. 87. which is a very good firing if the Souldiers be well exerciſed.*

Divers other ſuch like wayes there are to be uſed at the diſcretion of the *Commander*; and as the preſent occaſion ſhall require. *But becauſe I inſiſted ſomewhat largely upon the firings on the right-flanke, I ſhall not need to ſhew them again, by diviſion on both flanks*; but will conclude them all in this one. The words of *Command* which produce the *firing*, are as followeth.

Muſquettiers give fire to both flanks, and then place your ſelves between the Pikes and your owne diviſions.



The direction for this firing.

The *Command* being given, the *outermoſt file on each flanke preſents outward*, the reſt of the body ſtill continuing the *martch*. The *preſented files* (in the interim) *giving fire*; then *facing* after their *proper file-leaders*, who are to lead them up betweene the *Muſquets* of their owne *Diviſions*, and the *Pikes*. In the time of their *wheeling-away*, the next *two files preſent*, *firing* after the ſame manner, and leading up as before. The reſt (ſucceſſively) doing the like, untill they have *fired all over*; which brings them to their former places. The *Firing* may be continued at diſcretion, each *firing* being its owne *Reducement*. Nevertheleſſe,

theleſſe, it may ſo fall out, that either through the *fury of the enemy*, advantage or diſadvantage of the ground (or ſome ſuch like accident) the Body may be forced to make *Alt*, and to *face* to both *Flanks*; and ſo with *Fronts accidentall*, to maintaine the *fight ſtanding*. To which end, the *Firing* in the ſucceeding *Chapter*, ſhall be of that ſort. Therefore *ſuppoſe the Body faced to the right and left*, preparing to *give fire*.

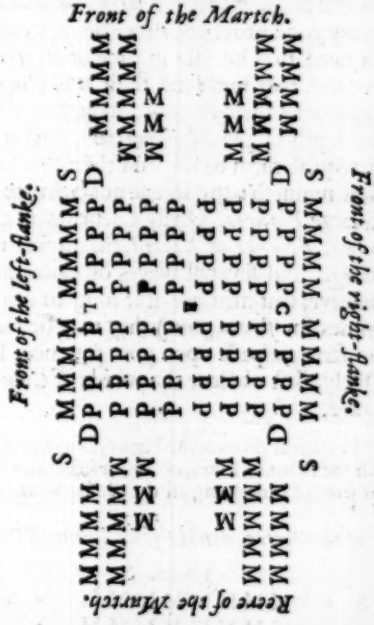
The Muſquettiers having given fire all over, they are reduced to their places, as at firſt.

CHAP. XCII.

A Firing to both Flanks ſtanding.

FIring to *both flanks*, upon a ſtand, is a good and ſerviceable *Firing*. And although it ſhew but thin in the Figure; yet it may be uſefull for the *Field*, eſpecially if there be a *larger proportion* of *number*, then I have made uſe of in my *Formes* and Figures of *Battell*. The words of *Command* and *Direction*, which produce the Figure, are as followeth.

Advance your Pikes and ſtand, Face to the right and left, Muſquettiers give fire and flanke your Pikes.



The direction for this firing.

The Body being *faced* to the *right* and *left*, the *foremoſt ranke of Muſquettiers* (which were the *outermoſt Files*,) *preſent* and *give fire*, and then *wheel-off* by *diviſion*, *ranking even with the foremoſt ranks of Pikes*, and leaving ſufficient *Intervals for the* reſt of the *Muſquettiers*, to *martch* between them and the *Pikes*. The next rank *preſenting* and *firing* after the ſame manner [a] but not advancing forwards: only *firing* upon the ſame ground, and *wheeling-off* by *diviſion*; afterwards paſſing downe *between* the *Intervals*, and ſo rank after their leaders. It is herewithall to be noted, that they that were out-moſt when they *gave fire*, are likewiſe to be ſo when they have taken their places. If theſe inſtructions be not ſufficient, turn back to the Figure of the [b] *Demi-hearſe*: where the manner of execution is all one with this. All the ranks of *Muſquettiers* having *fired* and *wheeled-off*, as before; the *Pikes* if need be may *charge*, and the *Muſquettiers give fire* over againe, *wheeling-off* outward, and placing themſelves in the *Reere of their own diviſions*. Having *advanced* your *Pikes*, and

[a] *Vpon ſome occaſions it will be neceſſary for the Muſquettiers and Pikemen to advance into the leaders ground, but then ſuch direction will be given.*

[b] *The Demi-hearſe, in Chap. 76.*

* *This facing brings all the Muſquettiers to the Front and Reere; if you would bring your Muſquets into their firſt place, let them give fire and wheel-off as before, which will reduce them againe to the Flanks.*

* *faced* your *Body* to the *firſt-front*, all your *Muſquettiers* will be in *Front* and *Reere*: and then, if you *face your halfe-files about*, and *give fire* after the ſame manner to the *Front* and *Reere*, having *faced* them again to their *firſt-front*, they will be *reduced*, as at firſt, into their ordinary *Square*. Nevertheleſſe, I will *reduce* it by another *Firing*, which was firſt invented and ſhewed us by that worthy *Citizen*, and excellent *Souldier*, Captain *Henry Waller*, now deceaſed: It is a *Firing in Front*, the *Muſquettiers* of the *Reere-diviſion* opening to the *right and left*, and *ſleeving-up on the Flanks of Pikes*, untill the Leaders of the *Reer-diviſion* (who as then are the *halfe-file-leaders*) *rank even* with the *Front of Pikes*. The words of *Direction*, that produce the *Figure*, follow in the next Chapter.

CHAP. XCIII.

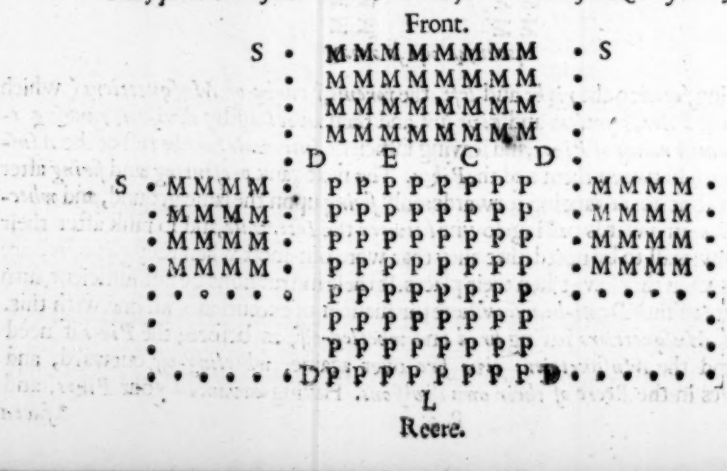
Captain Wallers *Triple Firing to the Front.*

THis *Triple Firing* to the *Front*, hath had the approbation of good and wel-experienced *Souldiers*, who have all acknowledged it to be both *ſolid* and *ſerviceable*; bringing many hands to fight in very good order, the *Pikes* being ſecurely covered by their *Muſquettiers* in *Front*; neither need they be idle in time of *Battell*, if they have any * *Bow-Pike-men* amongſt them, for that they may ſend their *Whiſtling Archery* over their *Muſquettiers* heads, without offence to their Friends, though not without dammage to their Enemies. If any carp at the depth of the *Muſquettiers* (either in this *Figure*, or in any other in this Book) I ſhall requeſt them to ſuſpend their cenſures, and wiſely to conceive by a little, what a great deal meaneth: my intent not being to make my Book *monſtrous*, by having little leaves, and large *Figures*. Onely I deſire with this ſmall number to ſhew the nature of ſeverall *forms* and *Figures* of *Battell*, the manner of their *Firings* and *Wheelings-off*, their orderly *placings*, and ſeverall wayes of *Reducement*; not having the leaſt conceit to induce any to beleeve, that men are able long to continue an orderly execution at 4. deep, although (ſometimes for *ſtratagems*) they may be reduced into a leſſer number. But leſt by digreſſion I too farre treſpaſſe upon your patience, I will returne to ſhew the manner of the *Firing*. Onely, firſt obſerve the words of *Command* and *Direction*, which produce the following *Figure*.

* *The Bow faſtened to the Pike may doe good ſervice, where the Souldier is skilfull, and the Enemy comes within their danger.*

Note that in the foregoing *chap.* the Muſquettiers were left in the Front and Reer: The direction over the Figure, Commanding the Reer-Squadron of Muſquettiers to martch up and range even with the Front of Pikes, which perfects this Figure. Some have miſtaken, ſuppoſing I had formed this Figure with them words: conceiving all the Muſquettiers, before that Command, on the Flanks.

Muſquettiers of the Reere, double your Front of Pikes by diviſion.



The

The Command being given, the *firſt-rank* of *Muſquettiers* (both of *Front* and *Flanks*) *preſent* to the *Front*, and *give fire*, *wheeling-off* to the *right* and *left* by *diviſion*: The *Muſquettiers* of the *Front-diviſion* being *wheeled-off* (as afore-ſaid) *cloſe by the Flanks of their own Muſquettiers*, paſſe directly down *between the Intervals*, and place themſelves *even in Rank behind the Muſquettiers of the Reer-diviſion, which are upon the Flanks*. This you may perceive by the *pricks* that come down between the *Intervals*. The *Muſquettiers* alſo that *fired* the ſame time on the *Flanks*, *wheel-off* in like manner, (the *right-flank* to the *right*, the *left-flank* to the *left*) *martching* directly down, even with the *Reer-rank* of *Pikes*; and there place themſelves again, even in *rank* with the *laſt-rank* of *Pikes*. This done, the reſt of the *Ranks* (ſucceſſively) *give fire*, and doe the like; every *Ranke* taking his place after the *Rank* which *fired* laſt before them; the other *Rank* moving one *Rank* forwarder. The *Muſquettiers* having *given fire* once over, and *falling-off* according to this direction, they will be *reduced* to the *Flanks* again, as they were at firſt, in the former Chapter. The *Firing* may be continued, or the *Pikes* may *charge*, at the diſcretion of the *Commander*.

The direction for this firing.

The Muſquettiers having fired once over, they are reduced again to the flanks.

CHAP. XCIV

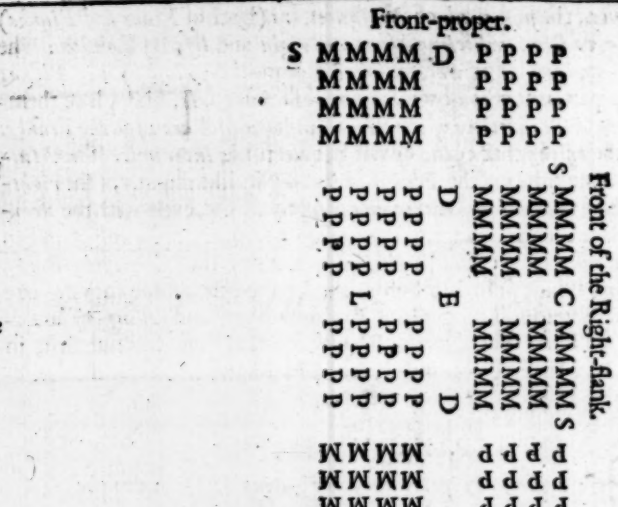
The Demie-Plinthium; being a Tripartite Firing, doing execution to the Front, Reere, and Right-Flank.

FIgures and *forms* of *Battell* may be infinite; according to the judgements of the *Commanders*, and the various workings of the divers *motions*: no *art* nor *ſcience* yeelding more content unto the ſtudious *Practitioners*; none more *honourable* and *beneficiall* for the good of our *Countrey*; none more *neglected*, and leſſe *countenanced*, than the *Practiſers* of the *Art Military*: nor none more *ſcrued-up*, in the places of their abiding, than thoſe men this way affected. Our rich *gown-men* holding it as a Maxime, *That Souldiers (though Fortune hath been but ſparing in their portions) yet they muſt be taxed in the Pariſh-Books like grounded Gentlemen.* Thus much incouragement wee have for ſpending our money and time for our Countries good; and this (in good time) I hope will be amended. The next *Firing*, being a *Firing Tripartite*, doth *execution* to the *Front*, *Reer*, and *Right-flank*, at one and the ſame time. For the *uſe*, I ſhall referre it to the *judgement* of the *judicious*: For the inſtruction, how it is to be *made*, the words of *Command* and *Direction* ſhew it; which are as followeth,

The common ſpeech being (oh let him pay) he hath money enough to ſpend upon his exerciſes of Souldiery.

Halfe-ranks of the left, double your Right-flank by diviſion.

Front-



If this figure were doubled, having ſo many more ordered in the ſame manner on the left-flank, it would be a compleat form to fire to Front, Reere, and Flanks.

The direction how to make this Figure is in the 27. Chap.

For the *Direction*, look back to the Chapter which treats of this *Doubling*: Onely, remember to *face* the *Diviſions* that way which you intend they ſhall *give fire*.

For the manner of the *Firing*, it is ordinary: the *fore-moſt rank* of *Muſquettiers* (on each part) having *fired*, they *wheel-off* to the *right*, or to the *right* and *left*, (according as directions ſhall be given) *placing themſelves* in the *Reere* of their *own diviſions*: the *next ranks*, in the mean time, *moving forwards* into their *leaders ground*; there in like manner *firing*, *wheeling-off*, and placing themſelves as before: the reſt of the *ranks*, ſucceſſively, doing the like. This *Firing* may be continued at pleaſure of the *Commander*. The *Pike-men* (as advantage may be given) in the *interim*, either *porting*, *charging*, or ſending their fatall *ſhowres* amongſt the thickeſt of their *Enemies*. Laſtly, for *Reducement*, *face* them all to their *Front-proper*, then command, *halfe-ranks that doubled, to face to the left, and ſo to martch into their places*. For further *directions*, turn back to *Chap.* 27. which ſhewes the *Reducement* of the afore-going *Figure*.

The reducement.

CHAP. XCV.

Of the Sconce-Battell.

For if it were made with a Regiment, Brigade, or larger Body, it would require other words of direction, but be nothing more difficult.

THe *Sconce-Battell* is a *Figure* moſt properly fit for a whole *Regiment*; at leaſt, for a larger proportion of *number* then is here expreſt; it neither being *good* nor *ſafe* to divide a ſmall *Company* into ſo many *ſub-diviſions* and *Maniples*: yet, to give ſatisfaction unto ſome, I have placed it here amongſt my *Figures*, and ſhewn the way how to make it with a *private Company*. For the manner or way how to *fire* upon it, may be divers: the *Muſquettiers* being ſo placed, that they may *give fire* to the *Front* and *Reere*, to the *Right* and *Left*, to all *foure* together, at the diſcretion of the *Commander*. If your *Muſquettiers give fire* to the *Front* and *Reere*, (every *Rank* making good his *leaders ground*) then the *Figure* will ſtill continue the ſame. If they *give fire* without *advancing* into their *leaders ground*, then the *Muſquettiers* will *rank-even* again with their *Pikes*; and the *Figure* will become an *hollow Croſſe*, the *Muſquettiers* making the *Angles*. The words of *Command* and *Direction*, which produce the *Figure*, are as followeth.

Halfe-

Halfe-files of Musquettiers, face to the Reere.

That being done, *Command all the Musquettiers to march to the Angles of their Pikes.*

Next cause, *The two first and two last Ranks of Pikes to stand.*

The rest to face to the right and left, and march untill they are cleer of the other Pikes, then stand.

Lastly, command, *The two first and last ranks of Pikes, which did not move, to double their Files to the right.*

These words of *Command* and *direction* being *executed*, perfect the *Figure*, as followeth.

The Sconce Battell.

Many and severall are the *Firings*, which (with some little *alteration*) may be drawne from this Figure. Nevertheless not to spin out time with discourse, the *Firing* now *intended* to be *shewn*, is to be performed to the *front* and *reere*. To which purpose, the one *halfe* (both of *Musquettiers* and *Pikes* are to *face-about to the right*; there *presenting* and *giving fire*: those of the *right-flanke wheeling-off* to the *right*; the *left-flanke* to the *left*, and *placing* themselves in the *Reere* of their owne *divisions*. The next *ranke* still *moving forwards* into their *leaders ground*; the other *ranks*, successively doing the like. After this manner, the *firing* may be continued, and the *Figure* still preserved. *By subdividing and new placing some of the divisions.*

For *reducement*. First, *face* them all after their proper *file-leaders*. Secondly, cause the *front* and *reer-divisions* of *Pikes* to *double* their *ranks* to the *left*. Thirdly, *command* the *Pikes* of the *flanks* to *face* in *opposition*, *close* their *divisions*, and then to *face* after their *leaders*. Next, *command* the *Musquettiers* of the *front-division* to *face* to the *reere*. Lastly, *command* the *Musquettiers* (both of *front* and *reere*) to *close* their *divisions*. And then being *faced* to their *leader*, they are perfectly *reduced*, as at first. *The Reducement.*

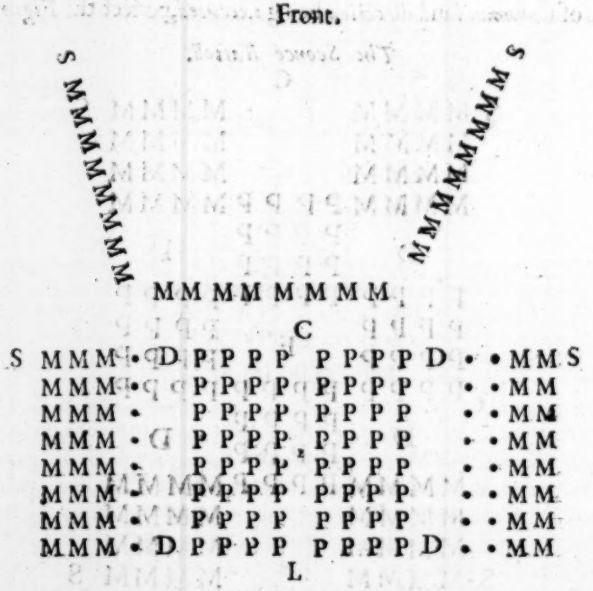
CHAP. XCVI.

Of Firing by three Files at once; two of them standing oblique, the other direct.

WHen I began to treat of *Forms* and *Figures* of *Battell*, I noted all *firings* to be either *oblique* or *direct*; and now for satisfaction to the curious, I shall insert two or

The firſt making or direction to the Figure.

three *oblique formes* amongſt the reſt. The firſt whereof ſhall be a *Firing to the Front, by drawing forth the outer-moſt file on each flank obliquely*, (or the *inner-moſt*, as ſhall ſeeme beſt to the *Commander*) untill the *bringers-up* of the *Files, ſtand even* with the *right* and *left-angle-men*, over the *front* of *Pikes*. They may alſo lead a *file* of *Muſquettiers* croſſe the *front* of *Pikes*; when having *placed* and *faced* them (as they ought) for *execution*, they will *ſtand* in manner of this following *Figure*.



The way to give fire obliquely demonſtrated.

The *two files* of *Muſquettiers* which were *led forth*, having *obliquely preſented inwards*, and the *file drawn croſſe* the *front* of *Pikes*, being *preſented* direct *Rank-wiſe*: upon the firſt *command*, they are all to *give fire together*, and then to *face* after their *bringers-up*, who lead their *files* directly into their *places*. This done they *face* to their *proper-front* againe; the other *files* (in the meane time) leading forth after the ſame manner. Theſe having done their *execution*, are to returne into their *places*: being *led-off* by their *bringers-up*, (as is aforeſaid.) The reſt of the *files*, after the ſame manner, *firing*, and *returning* untill they have all *given fire*; and then they will be all *reduced*, as at firſt.

CHAP. XCVII.

A Firing oblique, by four files together, in form of a W.

The direction to make this figure.

ALl the commendations that may be given of theſe *oblique Figures*, is, that they *poure out a great deal of ſhot at once, and may quickly be reduced to their places*. Notwithſtanding they are a great weakning to the *Body*, if any ſudden accident ſhould happen before they are ſetled in their former *ſtations*. Nevertheleſſe, I ſhall leave them to themſelves and if they be found to hold out weight, I ſhall not grudge that I have given them roome amongſt the reſt. But if they prove too light, let them be as lightly reſpected, yet bear ſomewhat with them for their *antiquity*. The way to make the *figure*, is as followeth. The two *inner-moſt files* of *Muſquettiers* on each *flanke*, *march* forth (each of them being *led* by an *Officer*) untill they have taken their *places*. Then the *Officers* that *led* forth the *two middle-moſt*

moſt files, are to returne to their *places* again; the *Serjeants* that led forth the *outer-moſt files*, ſtanding to ſee them doe their *execution*. Yet before the *Muſquettiers* have order to *give fire*, obſerve the manner of their *ſtanding*, by the following *Figure*.

The W *obliquat*

The *Muſquettiers* having *preſented*, according to their directions, they *give fire* all together; and then ſuddenly *facing* after their *Bringers-up*, *march* down into their places: the *next two files* of each *Flanke*, in the *interim* of their *marching-away*, are to *move forwards* to their *ground*; where they are in like manner to *give fire*, and then to take their places, as afore-ſaid. The reſt of the *files* of *Muſquettiers* (if you have more) muſt then *move forwards*, and doe the like. And in this ſort may the *Muſquettiers give fire*, *once*, *twice*, or *oftner* over; each *Firing* being a *Reducement* to it ſelfe. *The direction to give fire from this Figure.*

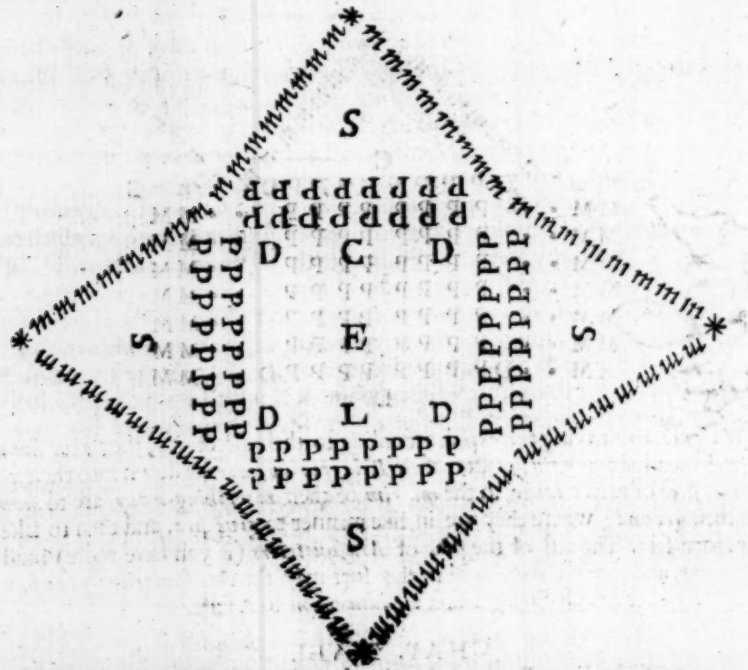
CHAP. XVIII.

Of the Fort-Battell; the way to make, and to reduce it.

THe *Figure* of the *Fort-Battell* is an *oblique Firing*, and taketh its *denomination* rather from the *ſimilitude*, then the *ſtrength* of a *Fort*. Its chiefe uſe is, for the *entertainment* of ſome great *Perſonage* or *Commander*, in the *Field*: who being received into the *midſt* of the *diviſion* of *Pikes*, the *Muſquettiers* may *preſent*, and *give fire* altogether, in one *volley*. Or if they would have the *Muſquettiers give fire* one after another, then the *volleys* by *ſucceſſion* (which ſome call the *Peal*) will be the beſt. If there be more *Muſquettiers* then will ſerve to make up the *Figure* ſingle, they may alſo *give fire* with the reſt, *preſenting obliquely*, between the *diſtance* of their *leaders*. The way to make this *Figure* is as followeth: Firſt, *draw forth the out-moſt files* (of *Muſquettiers*) on each *Flanke*, in *form* of an *hollow wedge*, before the *Front* of *Pikes*: then cauſe the *next two out-moſt files* to *face-about*, and to follow their *Bringers-up*, in the ſame *forme*, to the *Reere*: Then let the *laſt two files* of *Muſquettiers* (on each *Flanke*) be *drawn* after their *File-leaders*, in the ſame *manner* and *form*, to the *Flanks*. The *Muſquettiers* being thus *ordered*, and all *preſented obliquely outwards*, command the *two firſt* and *two laſt ranks* of *Pikes* to *ſtand*; the reſt of the *Pikes*, to *face* to the *right* and *left*, and ſo to *march* untill they are *cleare* of the other *Pikes* which *ſtand*; then command the *Pikes* which *moved*, to *double their files to the right*: Laſtly, command all the *Pike-men* to *face-outward*; each *The uſe of the Fort-Battell.* *The direction to make this Figure.*

diviſion of *Pikes*, after their *hollow wedge* of *Muſquettiers*: Or elſe, let them *face* all *inward* to the *Center*; and then the *Body* will ſtand in *form* of the following *Figure*.

The Fort-Battell.



Theſe firings are to be performed ſtanding, the Muſquettiers having given fire, are to make ready again in their places maintaining their figure.

Having *fired* upon this *Figure*, there is no manner of *wheeling-off*; becauſe the *form* is ſtill to be continued. But when you come to *Reducement*, firſt *face* all the *Pikes* to their *proper Front*; that is, unto the *place* where you find the *proper File-leaders*. Secondly, let the *Pikes* which are *Flankers*, *double* their *ranks* to the *left*, and ſo *cloſe* their *diviſions*; then the *Pikes* will be *reduced*. For the *Muſquettiers*, firſt command thoſe that are on the *Flanke*, to *lead-up* their *files* in their *due places*, cloſe to the *Pikes*: Next, command the *Muſquettiers* of the *Reere* to *ſleeve-up* on each *Flank* by *diviſion*: Laſtly, command the *Muſquettiers* before the *Front* of *Pikes*, to *face* after their *Bringers-up*, and to *march* down into their *places*: Laſtly, *facing* to their *Leader*, they are all *reduced* as at *firſt*.

Reducement

CHAP. XCIX.

Of the Croſſe-Battell: how to make it with a private Company: the wayes to fire upon it: with other diſcourſes, concerning the neceſſities inforcing that Figure; with the means to make it more defenſive and ſerviceable: and laſtly, the way to reduce it.

THe *Croſſe-Battell*, although it muſt needs ſhew *poor* and *thin*, being here *demonſtrated* by a *number* not *ſufficient* to expreſſe the *worth* of the *Figure*; yet hath it paſt the *approbation* both of *ancient* and *modern Commanders*: who (with good *ſucceſſe*) have often

drawn

drawn out, the *groſſe* of their *Battels* into this *form*; and therewith both *ſuſtained*, and *re-charged* upon their *enemies*. Each *diviſion* being very *aptly placed* to relieve the other. If the *enemy* be like to *give on in front*, then the *Reer-diviſion* may *ſub-divide*, and *martch up by each flanke* making the *wings*. But if that part be ſupplyed by the *Cavalry*, then they may ſerve to *line*, or *mixe*, *between the Intervals*, and *diviſions* of the *horſe*; or be *otherwiſe diſpoſed of*, at the diſcretion of the *Commander*. Nevertheleſſe, if any object, that the *enemy* being in open *Campania*, may as well *charge* your *Battells* in *flank* or *Reere* as in *front*. The anſwer may be eaſily given; that the *Body* being *faced*, the matter doth ſtill continue the ſame.

If it be re-objected, that the *enemy* having the *advantage* in *number*, may ſeek to *diſtreſſe* you; by *charging on the ſeverall places at once*. To that may likewiſe be anſwered, that each *diviſion* may *readily face* to that part and *receive their charge*.

Notwithſtanding, diſcreet *Commanders* have ever been *cautious*, to *adventure* into the *even*, and [a] *open countries*, (when the *enemy* hath the *advantage* of *horſe*; or much the *greater number* of *foot*) whereby they may be forced to the [b] *hazard* of a *Battell*: The which without *manifeſt neceſſities*, or (to the contrary) ſome *knowne* and *extraordinary* advantages, ought neither to be given, or *accepted*: So *nice* and *tickliſh* is the *chance* of *warre*; where ſmall errours, oftentimes, are the *fore-runners* of great *overthrowes*. But my intent is not to lanch forth into theſe laviſh diſcourſes, but timely to make my retreit unto my *private Company*, and without further circumſtances, of what hath, or may be done; come to ſhew what I intend concerning this *figure*: and ſhew the wayes to *fire upon it*; the which are ordinarily two, &c.

[a] *Even and open Countries very dangerous for ſmall bodies: where the enemy is ſuperiour in number, or horſe.*

[b] *The hazard of a Battell perillous.*

The [c] firſt, when the *Muſquettiers give fire*, and then place themſelvs in the *reer* of their *owne diviſions* of *Muſquets*. The [d] ſecond way is, after that they have *fired*, to place them in the *reere* of their *Pikes*, the *Pikes* maintaining the *Muſquettiers* ground. The words of *Command* which produce the *Figure*, are as followeth.

[c] *The firſt placing of the Muſquets.*

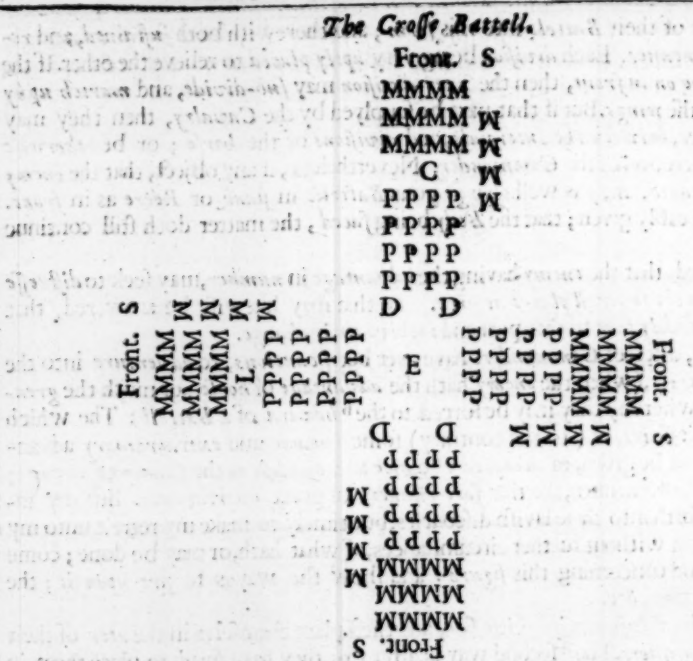
[d] *The ſecond way of placing the Muſquets.*

Two firſt Rankes, wheel your Front into the midſt.
Two laſt Ranks, wheel your Reere into the midſt.
The reſt of the Body, face to the right and left, and ſo martch, untill the Reer of the four diviſions make an even hollow ſquare.
Then let the Commander go into the midſt, (or center) and face the whole Company to him: giving them ſuch direction as is meet.
Laſtly, being all faced about to the right, the body will ſtand like the following Figure.

The direction to make the Croſſe-Battell: with a private Company: alſo you may obſerve if that the Croſſe Battell were to be made with a Brigade, or Regiment, then in ſtead of wheeling two Ranks, we ſhould perhaps wheel two or 3. Companies to either part, &c.

Note that as men ſtand in rank when they give fire, ſo they are to place themſelves again, when they have fired. The outer-moſt man taking the out-ſide places: the reſt in like manner, orderly placing themſelves within them.

The Croſſe Battell.


Front. S
MMMM
MMMM W
MMMM W
C W
PPPP W
PPPP
PPPP
PPPP
D D
E
D D
dddd
dddd W
dddd W
pppp W
MMMM
MMMM
MMMM
Front. S
Front. S
MMMM
MMMM
MMMM
pppp M
pppp M
pppp M

the Military Yard;) and I conceive may prove very *uſefull*, to defend the *void* and *open ſpaces*, which want other defence, from the *fury* and *inſolence* of the *haughty* and *ever-daring Horſe*. But if all theſe *helps* be *wanting*, then three or foure *files* of each *arme* may be *drawn croſſe*, from the *angle* of one *Front* to the *other*; the which being wel-ordered, may make reaſonable good *defence* on thoſe *parts*.

Having *given fire* upon the *Croſſe-battell*, and brought your *Muſquets* to the *Reere* of the *Pikes*, if you would *reduce* them, *paſſe* into the *midſt* or *center* of the *Figure*, and *face* all (both *Muſquettiers* and *Pike-men*) to you; and cauſe thoſe *diviſions* which were the *flankers*, to *cloſe to their order*: Next, *wheele* the *Fronts* into the *midſt* of the two other *diviſions*, one after the other; then goe to the *firſt-front*, and *face* the whole *Body* to you, and ſo you ſhall have all your *Muſquettiers* in the *midſt*, *flanked* with *Pikes*. If you would *reduce* them into their right places, command the *Muſquettiers* to *face* to the *right* and *left-ontward*, the *Pikes* to *face* to the *right* and *left-inward*; and ſo to *paſſe thorow*, and *inter-change ground*. This being rightly performed, and the *Body re-faced* to their *firſt-front*, they are *reduced* to their proper *order*. *The Reduc-ment.*

CHAP. C.

Of the hollow-fronted Croſſe-Battell: how to make it with a private Company; and the way to fire upon it, &c.

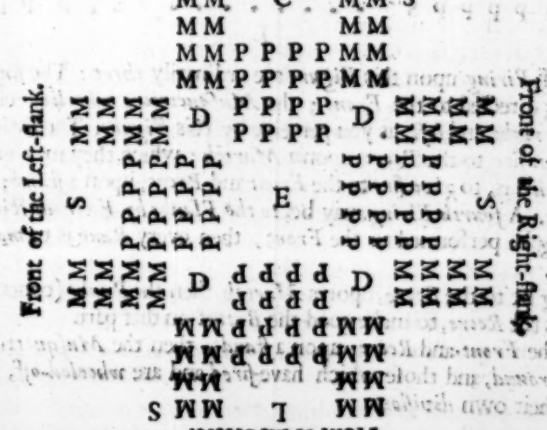
THis next *Figure* ſhall be of the *hollow-fronted Croſſe*, which is a *ſtronger form* than that laſt ſhewn; and yet thus much let me warn you of, that there can be but little expectation of *ſtrength* to be perceived, in *Battells* formed with ſo ſmall a *number*. This notwithſtanding, the * ingenious *Martialliſts* can eaſily diſcern thoſe things, which in warre may prove moſt uſefull for their own, and their Countries benefit; although they are here expreſſed to the publike view in ſo *mean array*, and in ſuch *thin numbers*. Wherefore, ſetting aſide all Apologies and Excuſes, I will briefly ſhew the words of *Command* and *Direction*, which will produce the following *Figure*.

* *Sub, and ſo great lovers of arms as* Philopæmen *the Achaian.* Rawleigh *hiſt. mun. c. 5 of the 5 book 1. part.*

Two firſt-ranks, wheele your Front into the midſt.
Two laſt-ranks, wheele your Reere into the midſt.
The reſt face to the right and left, and marſch until they have made the perfect Croſſe.
Laſtly, cauſe the Muſquettiers to flank their Pikes, according to this following Figure.

The dirction to make the hollow-fronted Croſſe, the files containing 8. men in depth.

The hollow-fronted Croſſe.



The

The direction for this firing.

The ſeverall *directions* for *Firing* upon this *Figure*, may be divers; but to avoid *diſtraction*, I will ſhew onely one way, and that *directed* to the *Front*, *Reere*, and *Flanks*. Nevertheleſſe (for varieties ſake) you may cauſe them to *give fire* once over, *wheeling-off* by *diviſion*; and placing themſelves in the *Reere* of their own *diviſions*; ſtill *moving forwards* into their *leaders ground*, thereby to preſerve the *Figure* in the ſame *order*.

At the ſecond time of *Firing*, cauſe the *Pikes* to move *ſoftly up*, *even* with the *Front* of *Muſquettiers*, *porting* as they *advance forwards*. The *Muſquettiers* having *fired* and *wheeled-off*, are to *place* themſelves in the *Reere* of their *diviſions* of *Pikes*, (whom before they *flanked*) every *Rank* of *Muſquettiers firing*, *wheeling-off*, and *placing* themſelves as afore-ſaid. Laſtly, the *Pikes* having *charged*, and again *re-advanced*, the *Body* will ſtand in the *figure* of a perfect *Croſſe*.

The reducement is the ſame with the Croſſe-Battell.

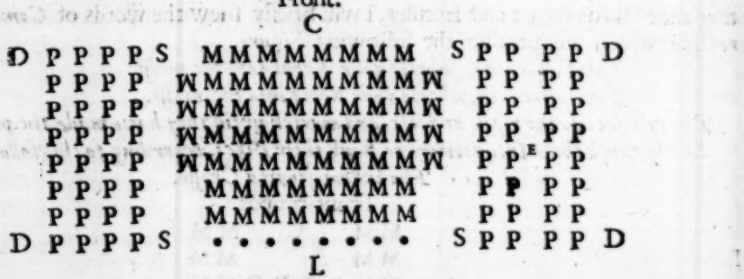
For the *Reducement*, it is the ſame with the *Croſſe-Battell*, delivered in the laſt Chapter: wherefore I ſhall need to adde no further *directions* in this place for the ſaid *Reducement*, then that the *Flank-diviſions* are to be *cloſed*, and the *Front* and *Reere-diviſions* to be *wheeled*, that the *Body* may be again returned into a *Square*, with the *Muſquettiers* in the *middle*. All this being here taught, I now proceed to ſhew one *Firing* with the *Muſquettiers* in the *midſt*.

CHAP. CI.

Of firing upon the Square-Battell, flanked with Pikes.

THe *Square-Battell flanked with Pikes* muſt needs be very ſafe for the *Muſquettiers*, as being a very able *defence* for the *Flanks*, againſt the incurſions of the *Enemies Horſe*. The *Figure* followeth, demonſtrating the *Muſquettiers* in *motion*.

The Square-Battell flanked with Pikes.



The ſeverall wayes of firing from this ſquare figure.

The wayes of *Firing* upon this *Figure* are ordinarily *three*: The *firſt Firing* is, with the *aſpect* being directed to the *Front*; the *Muſquettiers wheeling* either all *off* to the *right*, or to the *right* and *left*, as you perceive by this *Figure*. The *ſecond* is, for the *Muſquettiers* to *give fire* to the *Reere*, upon a *Martch*; which they may eaſily doe, from this *Figure*. The *third* is, to *give fire* to the *Front* and *Reere*, upon a *ſtand*; the *halfe-files* being *faced-about*. A *fourth Firing* may be, *to the Flanks by Extraduction*, if need be.

Note the firing to the front.

If the *Firing* be performed to the *Front*, then every *Rank* is to *martch-up* into their *leaders ground*.

The firing to the reere.

If the *Firing* be to the *Reere*, upon a *Martch*, then the *Ranks* (contrariwiſe) *cloſe backwards* towards the *Reere*, to make good the *Battell* on that part.

The firing to the front and reere.

If it be to the *Front* and *Reere*, upon a *ſtand*, then the *Muſquettiers martch-up* into their *leaders ground*, and thoſe which have *fired* and are *wheeled-off*, place themſelves in the *Reere* of their own *diviſions*.

To

To write further of this *Firing*, were more than necessary; no one of these *Firings* any wayes altering the *Figure*, but the *aspect* onely. Neverthelesse, if the *Commander* please, hee may, after the *Firing* in *Front*, *wheel both Flanks into the Front*, and so *charge Pikes*; and from thence proceed to other *Firings*.

If the *Firing* were in the *Reere*, hee may *wheel the Flanks into the Reere*, and cause his *Pikes* to *charge* that way.

If the *Firing* were to the *Front* and *Reere*, hee may *wheel both Flanks into the Front and Reere*; and so *charge* with his *Pikes* both wayes: which by Captaine *Bingham* is called *Amphistomus*.

These two wheelings are to be understood for single Companies, and not for larger bodies.

If the *Firing* were to one or both *Flanks* by *Extraduction*, then the *Pikes port* all the time the *Musquettiers are giving fire*, and after *charge*, at discretion of the *Commander*. You may further observe, that if the *Horse charge home*, then the *Pike-men* must *charge*, and the *Musquettiers couch* very low, while they *move crosse the Front*, and *give fire* on their knees. Before I come to *Reducement*, I shall proceed to the next *Firing* in the ensuing *Chapter*.

CHAP. CII.

Of the ancient manner of the imbattailing the Plinthyum: the placing of each Armes, and the use of the Figure.

THe *Plinthyum, anciently used amongst the* Grecians, *was an even, four-sided (or four-fronted) Battell; the middle-part thereof being commonly hollow: on the out-sides alwayes martched the heavie armed; the light and nimble armed Slingers, Darters, and Archers, being more securely placed in the midst.* Eudamus.

Notwithstanding, it took denomination from the *form*, and not from the *placing* of the *Arms*: (For example) *Eumenes* having sent for his *Elephants* to their *wintering stations*, *Antigonus* thought to take them by *surprise*; and to that purpose sent 2300. *Speare-men* and *Tarentines*, with all his *light-armed foot*; who over-taking them upon the way, &c. The *Commanders* of the *Elephants* ordered the *Beasts* into the *Plinthyum*, casting all their *Carriage* into the *midst*. And indeed, it was a *Figure* commonly taken up in times of necessity, when the *adverse part* was much the abler in *horse*. And to that purpose was it framed by *Timotheus* the *Athenian*, *Brisidas* the *Lacedemonian*, *Bardillis* the *Illirian*, *and many others*; being usefull and necessary, as well in time of *Battell* as in *Martch*; at both times for the security of the *Carriage*, and the defence of the *sick* and *wounded*. Much like unto this, is our *hollow four-fronted Battell*; which may well retaine the same name, although sometimes differing in the placing of our *Armes*. For if it should so happen (as it often doth) that a *Charge* be given in *Front*, *Reere*, and *Flanks*, at one and the same time, then I conceive this ensuing *Figure* very apt for defence, for that the *Musquettiers* and *Pikes* are so placed, that each *Arms* may be aiding and assisting to the other. For seeing that neither * *Musquettiers* nor *Pike-men* alone, can be singly sufficient of themselves, to withstand the able and resolute *Horse-man*, (without great *advantage of ground*) on the contrary, the *Musquettiers* and *Pikes* being *conjoyned* into one *Body*, and being *wel-ordered*, they are not onely able to defend themselves against their *fury*, but also to put them to the *worst*. Yet this must not be understood of *raw* and *unskilfull Souldiers*, whose ignorance is cause of diffidence; but of *hardy*, *experienced*, and *wel-exercised* men, such as know well how to demean themselves *couragiously* in time of *Fight*. The *words* of *Command* and *Direction* which produce the *Figure*, are as followeth:

The Elephants were ordered into an hollow square by Eudamus *their Commander.*

Sir Walter Rawleighs *hist. mund. lib. 4. cap. 4. sect. 4. as also in the Tacticks of Ælian, l. 2. the Notes of the 42. Chap.*

Plinthyum *is an hollow four-fronted Battell, having direct angles.*

* *Vnlesse the Musquettiers had halfe-pikes, and knew how to use them.*

Halfe-files of Pikes, face to the Reere, and martch untill they are cleare of the last-Rank of Musquettiers.

Note that all the Musquettiers must be in the midst, and the Pikes on the flanks, when you begin to make this Figure. If your Musquet be on the flank when you make it, then the Crosse will be Pikes, and the Angles Musquets, &c.

Secondly, command,

Half-files of Musquettiers, face to the right and left, (then) *march between the divisions of Pikes.*

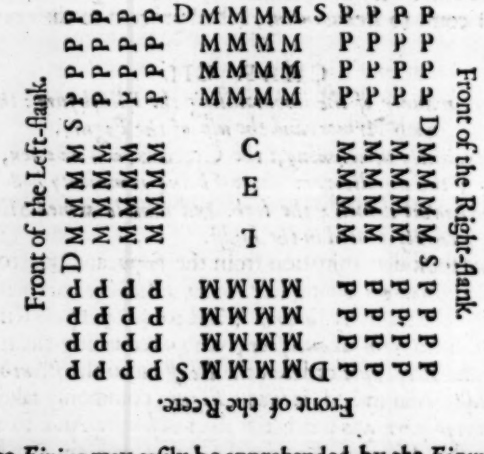
Thirdly, command,

Left-halfe-ranks of the first-division of Musquets, face to the Reere, and march between the Reer-divisions of Pikes.

Lastly, having *evened* their *Ranks*, *straightened* their *Files*, and *closed* their *Divisions* to an *equall distance*, and being rightly *faced*, the *Body* will stand like the following *Figure*.

The Plinthyum, or four-fronted Battell.

Front-proper.



The Plinthyum is an hollow square-Battell, fronted foure wayes, the number equall in length and depth. Another kind of Plinthyum is to have the depth exceed the length; the light armes to be placed in the midst of the hollow part. See the Tactick of Ælian, the second book, the notes of the 42. chapter.

The manner of the *Firing* may easily be apprehended by the *Figure*; the *Musquettiers giving fire* in *Ranke*, and *wheeling* all *off* to the *Right*, doe then passe down their *Intervalls*, under the favour of their *Pikes*, placing themselves in the *Reere* of their own *divisions* of *Musquettiers*; the *Pikes charging* at discretion. Having *fired once*, *twice*, or *oftner* over, and still maintaining the same ground, the *Figure* will continue to be the same.

If the *Reer-part* of the *Battell* was by any means secured, so that you need *give fire* but three wayes, then the *Front-halfe-files* of *Musquettiers* might have been preserved intire. This *Plinthyum*, or *four-fronted Battell*, may as well be made with the *Musquettiers* in the *Angles*, ; the *Pikes* making the *Crosse*: this kind of *Command*, alwayes making the *Crosse* of the *Armes* in the *middest* of the *Battell*.

The reducement of the Plinthyum into the solid square, flanked with Pikes.

After that you have *given fire*, at discretion, upon this *Figure*, and *charged* your *Pikes*, if you would *reduce* them to the first *Square*, command the whole *Body* to *face* to the *Front-proper*.

Secondly, command the *Musquettiers* in the *Reere* to *march-up* on the *left* of the *Musquettiers* in *Front*; the *Pikes* being first *opened*, to give them place.

Thirdly, cause the *Musquettiers* in *flank* to *face-inward*, and to *close* their *divisions*.

Lastly, cause the *Pikes* to *march-up*, placing themselves right after their *leaders*.

This being done, the *Body* will be brought again into a *solid Square*, *flanked* with *Pikes*. I forbeare further to *reduce* them untill I shew the next *Figure*. Yet, for further satisfaction to any that shall require it, command your *Musquettiers* to *face* to the *right* and *left outward*;

outward; the *Pikes* to *face-inward*, and ſo to *interchange ground*; and then being rightly *faced*, they are *reduced*. *The perfect reducement.*

CHAP. CIII.

Another hollow ſquare for Martch.

SUndry *formes* there be which goe under the denomination of the *hollow ſquare*, and very diverſly they may be framed. Some are hollow, *impalled* with *Pikes*; the *Pikes* againe, *girdled* with *ſhot*, and they *impalled* with *Pikes*. Some againe, with diviſions of *Muſquettiers* and *Pikes*: orderly mixt with an *hollow* in the midſt. A fourth ſort is when each *armes* are divided by themſelves, as when the *Pikes* make the *front* and *reere*, and the *Muſquettiers* the *wing*. A fift way is, when the *Muſquettiers* lead in *front* and *reere*, and the *Pikes* make both the *Flanks*. All theſe waies are very neceſſary and uſefull, as the time, occaſion, or place ſhall give cauſe; or the judgement of the *Commander* ſhall ſee fitting. Nevertheleſſe the *hollow Battell*, which I now intend to demonſtrate unto you is eſpecially uſefull for a *martch*, whereby to ſecure the *carriage*, as likewiſe to preſerve the ſicke and wounded; it may alſo ſerve for the *Commander* to conſult with his Officers, or to make any *Speech* or *Oration* to the Souldiers. Or the *Enſigne* may in ſigne of triumph, diſplay his *Colours* in the midſt upon a *martch* after *Skirmiſh*. *As it now is the cuſtome after exerciſe.*

The way to make this *figure* (the *Muſquettiers* being in the *midſt*) is as followeth. Firſt, to *command* the *halfe-files* of *Muſquettiers to face the Reere*:

Then Command all the *Muſquettiers to march, and the Pikes to ſtand.*

When they are cleere of the *front* and *reere* of the *Pikes*, let them ſtand, and *face* all to the *Front-proper*: and it produceth this following *Figure*.

If the *firing* be onely intended to the *front*; then *command* the *Muſquettiers* of the *Reer-diviſion*, to *open* to the *right* and *left*, and to ſleeve up on the *out-ſide* of the *Pikes*, *on to this there preſenting* and *firing* at the ſame inſtant, with the *Muſquettiers* of the *Van*: each *firing* part *wheeling-off*, and placing themſelves in the *Reere* of their owne *diviſions*. This *firing* doth conceive the *reere* to be by ſome meanes ſecured But if you preſuppoſe a *Charge* to be given to the *front* and *reere martching*, it may be retaliated (or acquitted) ſtill conti- *The direction for this firing.*

nuing the *martch*. Nevertheleſſe the inſolence of the *Enemy* will ſcarſe be repelled, or abated, without an *Alt*, and *facing about* to the *Reer-half-files*; the which being performed, the *Muſquettiers* are to *preſent*, and *give fire*; *wheeling-off* by *diviſion*, and placing themſelves in the *reere* of their owne *diviſions* of *Muſquettiers*; each *ranke* moving forward into their *leaders ground*: and doing the like. If you ſhould *give fire*, and not move forwards into your *leaders ground*, then the *Muſquetiers* would fill the hollow in the midſt between the *Pikes*. Nevertheleſſe, ſuppoſe the *Figure* ſtill to continue to be the ſame, becauſe I will now come to the *reducement*, and the rather, for that I have not done it ſince I began with the *Hollow-fronted Croſſe*. But now (ſo pleaſe you) I will *reduce* all by a *firing*. And to that end, firſt, cloſe your *diviſions* of *Pikes*; and then the *Muſquettiers* will be all in the *front* and *reere*.

The Reducement by a firing, the which is not expreſt in Figure in this place: it is in Chap. 88.

Secondly, cauſe the *halfe-files* (both *Muſquettiers* and *Pikes*) to *face* to the *Reere*. Then cauſe the *Muſquettiers* both of *Front* and *Reere*, to *give fire*, *wheeling-off* by *diviſion*, and *flanking* their *Pikes*. When they have *fired* all over, the *Pikes* may *charge*: who being againe advanced, and all *faced* to the *front-proper*, they are all *reduced* (as at firſt) into the *ordinary ſquare*, *flanked with Muſquets*.

CHAP. CIV.

Of the hearſe-Battell, and of the hollow Hearſe, and Croſſe.

Tactickes Chap. 30. The uſe of the Hearſe.

THe *Hearſe-Battell*, by the *Greekes* called *Orthophalanx*, as in *Elian*, *is when the depth doth manifold exceed the length, thrice at the leaſt. As when our Companies martch forth by right inductions* (or in *ſucceſſive diviſions.*) It is a *figure* eſpecially uſefull for *martch*, becauſe that upon thoſe occaſions, a *Body drawne out in length* would meet with many *lets* and *impediments*, by reaſon of the variety of grounds, and other *accidents*, the which they muſt comply withall in their way. Sometimes incountring with *woods* and *buſhes*, ſometimes with *hills* and *ſtraights*, ſometimes with *rivers*, *bridges*, *ditches*, *pits*, *quagmires*, and many other the like inconveniences; which would quite breake the *order*, and *array* of any other *figure*, having the *length* more *extended*. This *forme* is alſo held the beſt for *martch* in the night; becauſe the *range* (or *breaſt*) not being long, the *order* may be the Better *preſerved*. and the *martch performed* with more ſilence. But of all other, it is the *weakeſt*, *bringing but few hands to fight*; and hath ſeldome or never been *uſed* by any good *Commander*, unleſſe it were upon neceſſity. It may be made either *ſollid* or *hollow*, and being conjoyned to the *croſſe*, may prove more ſerviceable, eſpecially for the ſecurity of the *Carriage*.

If it were not for theſe impediments it were better to march in forme of Battel; with the front & wings extended at length.

The Hearſe Battel of all other, the weakeſt for fight.

True it is, that were the *forme* farre more *ſtrong*, yet being demonſtrated, by ſo ſmall a *number*, might well render it ſuſpected: ſeeing the worth therof (by reaſon of the *thinneſſe*) could not ſo evidently appeare, as otherwiſe it would, were the *number larger*.

But I have onely taken upon me to ſhew the *ſeverall formes* and *figures* of *Battell*, which may be *formed* and *practiſed* by a *private Company*: as having *limited* my ſelfe, not to exceed the number of 128 men. Wherefore my requeſt muſt be that the *courteous reader* when he ſhall find that any *figure* for want of *number* looks *thinne*, (or poore) he will there be pleaſed to *cloath* it in a larger *number*: for that thereby the *Battell* will appeare the more *ſollid*, and the *beholder* become the better *ſatisfied*.

This figure fit for a convoy.

This *figure* may in like manner be *uſefull* for a *Convoy*: the *hollow parts* thereof, being very *commodious* to *ſecure* the *carriage*: the men alſo are very well *diſpoſed* to *holpe* and *aſſiſt* each other, in whatſoever part it ſhould happen them to be *aſſailed*.

The words of *Command* and *Direction* which produce the *figure*, are as follow.

Wheele front and reire into the left-flanke.

That

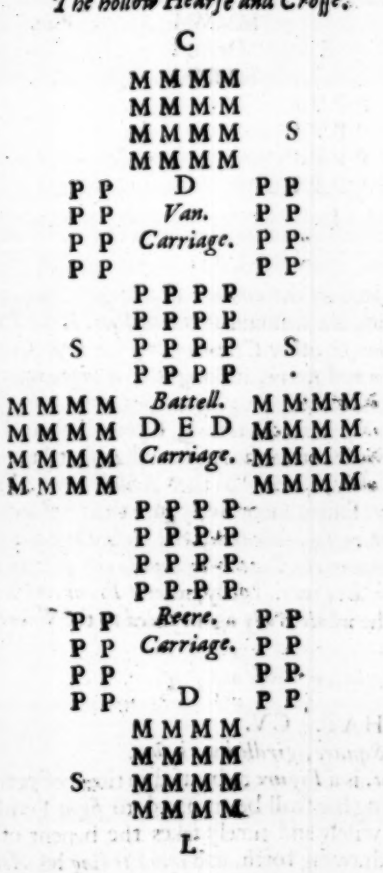
That done, *face* them as before, and the *Muſquettiers* will be in *Front*, *Midſt*, and *Reer*. *The direction to make this Figure with a private Company.*

Next, *open* the *Muſquettiers* in the *midſt* to the *right* and *left*, and cauſe them to *double* their *Ranks* to the *left*.

Then cauſe the *Front-halfe-files* of the *Front-diviſion* of *Pikes* to *open* to the *right* and *left*; and the *Reere-halfe-files* of the *Reere-diviſion* of *Pikes* to doe the like.

Then, having *evened* their *Ranks*, and *ſtraightned* their *Files*, and being *faced* to their *Leader*, the *Body* will ſtand in *form* like this enſuing *Figure*.

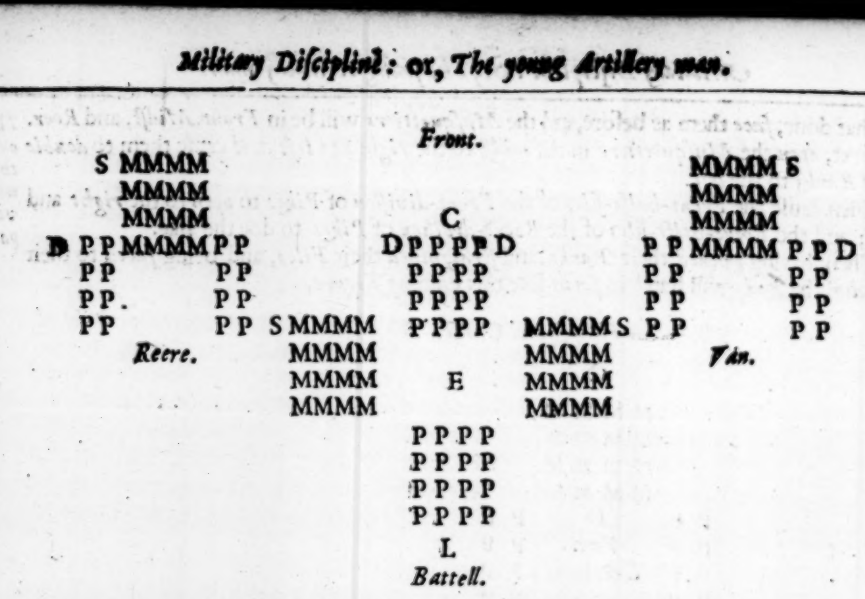
The hollow Hearſe and Croſſe.



If ſo be you will *give fire* upon this *Figure*, you may doe it any way, or every way. If you *give fire* to the *Front*, *Reer*, and *Flanks*, then let your *Muſquettiers wheele* all *off* to the *right*, and *place* themſelves in the *Reere* of their owne *diviſions*. If you would ſtill preſerve the *Figure*, then let every *Ranke* (before they *give fire*) *march-up* into their *leaders ground*. *The direction to this firing.*

Having either *marched* or *skirmiſhed* in this *forme*, before I come to the *Reducement*, I will draw one other *Figure* from it; the which I conceive, with ſome ſmall *addition*, would prove very *ſerviceable*, even for a *pitcht Field*, were the *number proportionable*. The *Directions* to make this *Figure*, are as followeth.

Firſt, command the *Van to make Alt*. Secondly, command the *Croſſe* (being the *Battell*) *to ſleeve up on the Left*. Thirdly, command the *Reere to ſleeve-up to the Left of the Battell*; the *Muſquettiers* of the *Reere* ſtill *moving forwards*, untill they *ſtand even ranged* with the *Muſquettiers* of the *Van*. This being rightly performed, produceth this following *Figure*. *The direction to make the enſuing Figure.*



This *Figure*, although here demonſtrated by the *number* of a ſingle *Company*, yet carrieth the *port* of a * *Regiment*; borrowing the denominations of *Van*, *Battell*, and *Reere*: and may, at the direction of the *Captaine* (or other *Commander*) be ſo *ordered*, and the *Firing performed* accordingly. The *Van* and *Reere*, making the *Wings*, may ſend forth [a] *looſe files* to begin the *Skirmiſh*. Secondly, they may [b] *give fire even-a-breſt*. Thirdly, the *Battell*, *ſlowly advancing*, may *give fire* at diſcretion. Upon all theſe *Firings*, the *Muſquettiers* are to *wheele-off* to the *Right*, or to the *Right* and *Left*, taking their places according as direction ſhall be given. Laſtly, to come to the [c] *Reducement*: Firſt, *martch forth the Van*; the *Battell*, and the *Reere*, falling ſucceſſively into their [d] *places*. Secondly, command the *Pikes of the Van and Reere to face inwards, and cloſe their diviſions*. This being performed, cauſe the *Muſquettiers of the Battell to double the files to their right*, and in like manner *to face and cloſe their diviſions*. Laſtly, *wheele Front and Reere into the Right-flank*. Which being done, and the *whole Body* again *faced* to the *Front-proper*, all will be *reduced*, as at the firſt.

* *This Figure eſpecially proper to a Regiment.*

[a] *Note in Chap. 73. the directions of firings by ſeverall files.*

[b] *The looſe disbanded files being returned, the Wings begin to give fire even-a-breſt.*

[c] *The reducement.* [d] *Making again the hollow Hearſe and Corſe.*

CHAP. CV.

Of the hollow Square, girdled with ſhot.

THe *hollow Square, girdled with ſhot*, is a *Figure* to be uſed in times of neceſſity, when as the *Commander*, well fore-ſeeing hee ſhall be enforced to *fight* (with great diſproportion of *number*) hee therefore wiſely and timely takes the benefit of ſome * *advantagious ground*; thereon ſpeedily drawing forth, and *imbattelling* his *Army* into this *forme*. And that nothing may be wanting, or through neglect expoſed to *danger*, the which by any meanes may be *ſecured*, all the *Carriage* (which otherwiſe would not prove *ſerviceable* and *available*, for the better *ſtrengthening* and *fortifying* ſome part or other of the *Battell*) ſhould be ſafely placed in the *midſt*. And leſt the adverſe part taking advantage to breake in at any the ſpaces between the *Angles*, ſhould thereby breed confuſion, or *breake their array*, they are ſuddenly to *impale* thoſe *parts* which offer themſelves as *weakeſt*, (and leaſt *defenſible*) with ſharp-pointed *Paliſadoes*: A weapon, which hath ſome-

* *Uneven, rough, buſhy and hilly grounds, are all leſt and impediments to the Horſe.*

ſometimes been uſed by our [i] *Engliſh Bowmen*, with good *ſucceſſe againſt the French*: and now of late, in our [k] owne time, by that worthy *Hero, and Prince of matchleſſe memory*, Guſtavus Adolphus *King of Sweden, in his warres of Pole, and Germany, joyning the ſwines-feather with the Muſquet, as a reaſonable defence againſt the incurſions of the Horſe.* The uſe of which weapon is now practiſed and taught here amongſt us: by that *worthy Gentleman, and expert Souldier, Captain Henry Tillier.*

But to returne: thoſe parts which lye moſt open to the *fury* of the *Enemies Horſe*, ought to be impaled with *palliſadoes (or ſwines-feathers)* as aforeſaid: or if thoſe kind of weapons be wanting, then ſupply that defect, by ſpeedy caſting up a *rampart or breſt-work* of earth in each needfull place. Nevertheleſſe if time permit not, or that the ground be not *feaſable*, then the *Wagons, Carts*, and other *Carriages*, may be ſo orderly placed, that of themſelves they may be ſufficient to *fortifie*, and *defend* thoſe *places*, which otherwiſe would lye *too open* to the invaſion of the *Cavalry*.

This *Figure* may be as well made with the *Pikes* fore-moſt: but becauſe that the *Muſquettiers* may more commodiouſly *fight* before their *Pikes*, and with leſſe danger to their own *body*: therefore I conceive it fitteſt at firſt to place them in *front* of their *Pikes*. And if the *enemy* ſhall too *hotly preſſe* them with his *Horſe*, then at the diſcretion of the *Commander*, they may ſafely *retreis* behind their *Pikes*; the *Pikemen making good* the *ground of the Muſquettiers*. For better ſatisfaction, obſerve the *direction* to make the following *Figure*. Firſt, *command a Serjeant to draw forth* all the [l] *odde files* of the *right-flanke*, (both *Muſquettiers* and *Pikes*) and *wheele* them to the *left, croſſe* the *front*, That being done, *command* the odde *files* of the *left-flanke*, (as well *Muſquettiers* as *Pikes*) to *face* to the *reer*, and let them in like manner be *wheeled* to the *left, croſſe* the *reer*, following their *bringers-up*.

[i] *At Agincourt.*

[k] *Paliſadoes have likewiſe bin uſed of late in the Eaſtern warres by the name of Swinesfeathers.*

The Muſquettier well experienced in the uſe of the ball-pike either in fireight or camparia will be too hard for the Horſe.

[l] Note that the *odde* files on the *right-flank*, are the *out-moſt file* to the *right*, the *third file*, the *fifth file*, the *ſeventh*, and ſo forward (for the reſt, if the *Body* be larger) beginning your account from the *outer-moſt file* to the *right* Note, that the *odde files* on the *left-flanke*, are the *left-hand-file*: the third, the fifth, the ſeventh, &c. ſo ſtill accounting the *odde files*, beginning with the *outer-moſt file* to the *left*. Theſe directions are for a private Company; a Regiment or larger body muſt be otherwiſe ordered.

For the reſt of the *body*, that remaines undrawne forth: let them *cloſe* to the *right* and *left outward*; untill the *Reer-angles* of each *diviſion*, ſtand *diagonally oppoſite* to each other. Then let them be all *commanded* to *face* to the *Center*, or midſt of the *hollow-ſquare*, where the *Commander* is to give them ſuch *incouragement* and *directions*, as ſhall be meet.

Laſtly, let all *face-about* to the *Right*, and *preſent*.

The hollow-Square Girdled with Shot.

For

For the manner of *firing* upon this *Figure*, it is as followeth, [a] The *first rank* of *Musquetiers* (to each *Front*) having *presented* and *given fire*, they are to wheel all off to the *right*. And because that eight or ten men, are too many to *wheele downe* one *Intervall* (for that they will bee so long, before they can cleere the *Front*) therefore you may cause *Intervals* to be made, betweene the midst of each *division*, as you may perceive in the *Figure*. The *first ranke* having *fired*, and *wheeled-off*, the *next rankes* are to *moove forwards* into their *ground*, they which *wheeled-off*, in the meane time placing themselves in the *reere* of their *owne divisions* of *Musquettiers*. The next *ranke* of *Musquettiers* having *fired* in like manner, are to *wheele-off*, and to place themselves as aforesaid, the [b] *rest of the ranks* of *Musquettiers*, (successively) are to doe the like, untill they have all *given fire*, (once or ofter over) that way, according to the occasion. And in this *interim* may the [c] *Bow-pike-men* be bountifull in bestowing their *showres* of arrowes, amongst the thickest of their *Enemies*.

[a] The direction for this firing.

[b] If there be more rankes of Musquettiers then is represented in this figure.

[c] The Bow-pike-men (if at any time useful) beare in this figure good weapons to imploy their dexterity.

If the *Horse* prevaile so much, that the *Musquettiers* may not endure to beare the *brunt* of them: then let the [d] *Musquettiers* (after they have *fired*,) *wheele-off*, and place themselves in the *reere* of their following *divisions* of *Pikes*: they *moving forwards*, and *maintaining* the *Musquettiers ground*; *charging* with their *Pikes* (as they see occasion) for *securing* the *Musquettiers* in the *midst*. This notwithstanding, if the *enemies horse* shall still *presse forwards*; and with their *shot* shall continue to *annoy* the *body* (the *Pikes* on this *figure* being especially *defensive*:) then cause the *Pike-men* to *charge* at the *foot*, and your *Musquettiers*, to *give fire* over them: according to former *directions* on the *Convex halfe-moon*. After this manner, the *battell* may be continued to the *last ranke*. When you have *given fire*, in this order, your *Musquettiers* being all in the *reere* of your *Pikes*; if you be minded to *reduce* them into the first *orderly square*, this is one way for it. *Passe through* your *Musquettiers* before your *front* of *Pikes*, as they were before the *firing*: that being done, let the Commander *face* the whole *body* to the *left-angle* of the *front-division*, by which means hee shall there find the *halfe* of his *file-leaders*. This being performed, let them *march*: and so *even* their *rankes* and *straighten* their *files*; the *reer-division* of *Musquettiers* and *Pikes*, orderly following after the *front-division* of the like *Armes*. After this let the *halfe-files* which then are (which indeed are the *residue* of the *file-leaders*) *double* their *ranks forwards* to the *left*: which being performed, the *men* are *reduced* as at first.

[d] The second way of placing the Musquettiers.

A third way of firing on this figure.

The reducement.

If you would *reduce* them some other way, without *passing through* your *Musquettiers* (as I have formerly said) then first let the *whole body face* to the *left-angle* of the *front-division* and *march*, *evening* their *ranks* and *files*, as aforesaid. Which being done, cause the *halfe-files* (which then are) to *double* their *front* to the *left*; which being in like manner performed, all your *Musquettiers* are still in *midst*. Your next worke is, to cause your *Musquettiers* to *face* to the *right* and *left outward*: and your *Pikes* contrariwise, to *face inward*; and so to passe through, and interchange ground. Thus being *faced* to their *front-proper*, they will be *reduced*, as at first.

A second way of reducement.

If any will be practising of this form of *battell*, with a smaller number of men (as with 64. or fewer) whereby they will be constrained to double their *halfe-files*, then they will be *reduced* the same way; onely they shall not need to *double* their *halfe-files* againe in their *reducement*: as they must needs doe, were the number larger.

CHAP. CVI.

Of the solid Square, with Musquettiers in Center and Angles. The way to make the Figure with a private Company: how to fire upon it, and to reduce it.

INfinite are the formes and Figures of Battell which may be made: yet all differing either in circumstance or matter. Some of them are Sollid, others Hollow: some of them, being *Trines*, *Squares*, *Hearses*, *Cirtes*, *Cressents*, *Crosses*, *Diamonds*, *Plinthiums*, *Plesiums*, *Paramekes*,

Paramekes, and *infinite* others, Some of them taking their denomination from the nature of their *numbers*. Others according to the *placing* of each *Armes*. A third ſort, taking their names from things they moſt reſemble, all of them being neceſſary to be knowne, to ſuch which would be accounted skilfull [e] *Serjeant Majors*: that ſo with all *numbers*, upon all occaſions, they may readily bring their *Souldiers* into any form or figure of battell (according as the time, the number, and place will give them leave) for oppoſition either of horſe or foot, or of both conjoyned.

[e] *Majors* ought to be of ſingular skill and experience that ſo they may at all times be able (having obſerved the ſituation and place) to draw their men into forms moſt advantagious to themſelvs, and offenſive to their enemies.

Excellent was the Cuſtome of that worthy *Philopemon* the *Achaian*, who when he walked or travelled abroad with his friends and familiars, would marke and peruſe the ſituation of the Country about him: and ſo contrive and diſcourſe to his companions, that if it ſo happened an army to *martch* that way, then he ſuppoſing to have under his [f] *command* ſuch a number of *Souldiers*, ordered and appointed in ſuch a manner, and *martching* towards ſuch a place; where being upon ſuch a ground encountred, by the greater and better prepared Army: Then would he put the queſtion, whether it were fit for him to hold on his way, *retire*, or *make an Alt*: what *peece of ground*, were meeteſt for him to *ſeize on*, and in what *manner* beſt to doe it; in what *forme to order his men*, and how and in what numbers to place *each Armes*, where to *beſtow his carriage*, and under what *guard to leave them*. Next would he propound, if that the *enemy* were for the preſent *beat-off*, then how with the moſt *conveniency to encampe that night*, which way, and in *what manner* were his *beſt to martch the next day*, by theſe and ſuch like continuall diſcourſes and meditations, he was growne ſo *exact* and *perfect*, that he never met with any difficulty, whence he could not explicate himſelfe and followers.

[f] *This kind of practiſe and meditation, an excellent meanes to make men expert in this Military trade. Our deboiſt rearing rabble, (who aſſume onely the habit of Souldiers to make them ſeeme to be ſuch) never ſpend their times after this worthy and vertuous manner. Nor indeed hath any attained to be eminent in this Military way, whoſe ends and aimes have bin baſe and covetous; But ſuch, and onely ſuch, whom love of vertue hath indeered to imp their wings with the plumes of honour.*

Now after ſo large a digreſſion, return we back to our *ſingle Company*; the work of this *Chapter*, being to ſhew the *Pleſium* or *long ſquare*. In which the *Muſquettiers* are *halfe* in the *midſt* of the *Pikes*, and the other *halfe equally divided*, and *placed* on the *four angles* of the *battell*: the *Pikes* making *foure diviſions*; as being *placed* upon the *front*, *reere*, and *flankes*. But not to hold you with longer *circumſtance*, take theſe *words* of *command* and *direction*, which produce the following *Figure*.

The Command is, *Foure middle-moſt ranks of Muskettiers and Pikes, interchange ground.*

For further direction, cauſe the *foure middle rankes of Muſquettiers* to *face to the right and left inward.*

That done, cauſe the *foure middle-ranks of Pikes* to *face to the right and left outward*; then let them *move* and *interchange their places*. This done, and *faced* to the *firſt-front*, produceth the inſuing Figure.

The Pleſium.

E C

S MMMM D P P P P P P P P D MMMM S
MMMM P P P P P P P P MMMM
P P P P M M M M M M M M P P P P
P P P P M M M M M M M M P P P P
P P P P M M M M M M M M P P P P
P P P P M M M M M M M M P P P P
MMMM P P P P P P P P MMMM
S MMMM D P P P P P P P P D MMMM S

L

If you would *give fire* upon this *Figure*, it may be performed either to the *Front* and *Reere*, to the *Right* and *Left*, or to all *foure* together. But which way ſoever the *Firing* be, let the *aſpect* of the *Muſquettiers* in the midſt be turned the ſame way; and cauſe the *Pikes* which ſtand before them, to *charge* at the *foot*, and the * *Muſquettiers* in the *Center* to *give fire* over them. The *firſt-rank* having *fired*, let them kneel (or crouch low) upon the ground, *making ready* again, whileſt the next *Ranks* behind them *give fire*, and doe the like: and ſo forwards for the reſt. Having all *fired* once over this way, let them riſe up, and (if need be) *give fire* over again, after the ſame manner. The *Muſquettiers* on the *Angles* (in the interim) *giving fire* after the ordinary way, *wheeling-off*, and falling in the *Reere* of the *Muſquettiers* of their owne *diviſions*; the others in the mean time *moving forwards*, and making good their *leaders ground*. This being done, and the *Pikes* having *charged*, the *Figure* will ſtill continue to be the ſame, without alteration; and that as well in *men*, as *matter*, if ſo be the *Firing* be performed according to the former *direction*, either in the Book, or Margin.

* *The Muſquettiers in the midſt of the Battell may give fire by Extraduction, which will be a better way then to give fire over the Pike-mens heads.*

The Reducement.

For *Reducement*, command the *foure middle-moſt Ranks of Muſquettiers and Pikes to interchange ground*, and they will be *reduced* as at firſt.

If this be not plain enough, obſerve theſe following *directions*: *Muſquettiers of the middle-diviſion, face to the Right and Left outward: Pikes of the flank-diviſions, face to the Right and Left inwards*: this done, let them *move into each others places*, and *face to the Front-proper*, and they are rightly *reduced*.

CHAP. CVII.

Of the double Croſſe-Battell, and ſeverall other formes from thence proceeding.

I Shall now proceed to ſhew ſome *formes*, for the *imbattelling* of larger numbers: It being one of the moſt principall parts of the *Art Military*, to *arange* your *Battells* into ſuch *forms* as may bring moſt *hands to fight*, with conveniency, ſo that one part of your *Battell* doe not *cumber* or *hinder* the other; but by their orderly placing, they may be *aiding* and *aſſiſting* to each other: appointing to every *part*, *maniple*, or *diviſion*, their due number; what order they are to keep, *when* and *how* they ſhall *fall-on*; that ſo there may be no diſturbance in time of *fight*. Therefore, in the *ordering* of your *Battels*, you ought to be carefull of what may happen by *caſualty*, *or chance of fortune*; that ſo by a timely fore-ſight you may provide *remedies*.

Eſpecially take notice, that you alwayes have *Reſerves* ready, both of *horſe* and *foot*, (if you have them in the field) that ſo by their *timely aſſiſtance*, the *broken* and *diſtreſſed parts* of the *Battell* may be *upheld* and *relieved*. For many times it ſo * happeneth, that ſuch a *Reſerve* may be an eſpeciall cauſe to gain a *Victory*; the want thereof (to the contrary) may be a means *to hazard the loſſe of all*. Of this you may read examples enough in all *Hiſtories*, both *ancient* and *modern*. But I forbeare to wade further into theſe diſcourſes, and therefore return to the work of the Chapter.

* Witneſſe *Cæſars* Reſerve at the Battell of *Pharſalia*, and infinite others ſince. And indeed, no good Commander drawing forth his Battalions into what form ſoever, but hee will alſo provide and place convenient Reſerves, both of Horſe and Foot.

Some *Commanders* have *ranged* their *Armies* into one onely *Battell*, without either *Wing* or *Reſerve*: ſome into two; others into three; ſome into foure; ſome into five; ſome ſix, ſeven, eight, nine; and ſome into more. Now although that this ſmall number that I have pitched on, be not ſufficient to demonſtrate the *Figures* ſo perfectly (when they are divided into many parts) as larger numbers would make them appeare, yet accept of them as they be; for I have purpoſely choſen ſo ſmall a number, that ſuch *Captaines and Gentlemen as pleaſe, may make uſe of them in their practice*. The *Command*, *Direction*, and *Figure*, followeth.

The

The Command is, *Muſquettiers march, untill your halfe-files range even with the Front of Pikes, then ſtand.*

Halfe-files (of each Armes) face outward, and march untill you are cleare of the Angles of your own Arms, then ſtand: face all to your Leader.

Front.

Reere.

If this Firing were to the Front and Reere, then the two laſt diviſions of Pikes may be Muſquettiers, the Pikes placed even with the Reer-angles of the Muſquettiers in Front.

Your *Body* being drawn into this *forme*, it ſtands aptly for *Firings* in *Front*; but may very fitly ſerve for to *give fire* to the *Front* and both *Flanks*. If you would *fire* to the *Front*, and preſerve your *Figure*, then the *Muſquettiers* muſt move forwards into their *leaders ground*. If you pleaſe, you may move forwards your *Reer-diviſions* of *Muſquettiers*, and make *wings* of them, to begin the *Skirmiſh*. Having *fired* once or twice over, they may *retreit* into their places; and then the *Front-diviſions* may entertaine the *Skirmiſh*, and *fire* two or three times over. The *Reer-diviſions* may alſo *give fire* with them, at diſcretion of the *Commander*. The *Pikes*, in the mean time, are to *advance, move forwards, port, charge, ſtand, retreit*, all according to the *direction* of their *Command*, or *beat* of the *Drum*.

This Figure fit to fire to the Front and both Flanks.

Skirmiſhing in Front with wings.

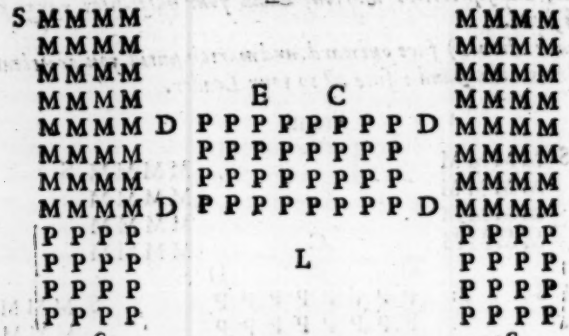
If you would *give fire* to the *Front* and both *Flanks*, at one and the ſame time, then the *Front-diviſions*, both of *Muſquettiers* and *Pikes*, keep their *aſpects*, and *give fire* to the *Front*: the [a] *Reer-diviſions*, as well *Muſquettiers* as *Pikes*, *face to the right and left*, *firing* to the *Flanks*. If they *give fire* moving forwards into their *leaders ground*, then they continue the *Figure*. And if the *Commander* think fit, the [b] *Front-diviſions* may move forwards, and maintaine their *leaders ground*; the *Reer-diviſions* of *Muſquettiers giving fire* upon the ground they ſtand, *wheeling-off* to the *right*, (or to the *right* and *left*) placing themſelves in the *Reere* of their own *diviſions* of *Muſquets*; the *Pikes* may *port*, and *charge*, at the diſcretion of the *Commander*. If this be obſerved, it produceth this following *Figure*.

Directions for firing to the Front and Flanks.

[a] *Reere-diviſions are the halfe-file-leaders.*

[b] *This Firing altering the place of the Muſquettiers in Flank, varieth the former forme to this inſuing Figure.*

Front.



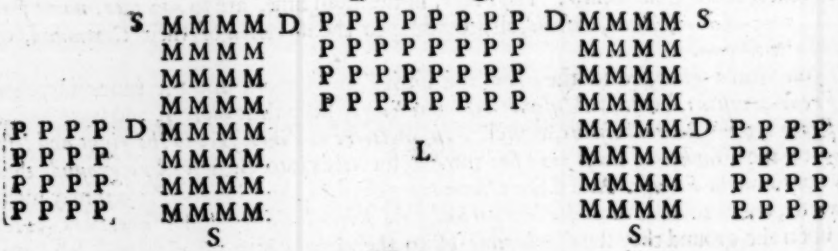
Reere.

If you will *give fire* on this *Figure*, it is to the *Front*; having *fired* once or twice over, the *Front-diviſion* of *Pikes* may move forwards, *porting*, untill they *range-even* with the *Front* of the *Muſquettiers*, and there *charge* their *Pikes*: The *Muſquettiers* ſtill continuing their *Firing*. The *Reer-diviſions* of *Pikes*, in the mean time, *facing to the right and left-outward, and ſleeving-up the flanks of the Reer-diviſion of Muſquettiers*; there in like manner *charging* their *Pikes*, either to the *Front* or *Flanks*, according to *direction*; which produceth this following *Figure*.

* *A ſecond way to make this Figure.*

If you would * make this *Figure* from the *Square* (of *Pikes flanked* with *Muſquettiers*, it is no more but) Command *Halfe-files of Pikes, face to the right and left-outward, and paſſe through to the flanks of your Muſquettiers*, (then) *ſtand*, and *face to your Leader*.

Front.



Reere.

I cannot ſtand to enlarge my ſelfe upon every *Figure*, to ſhew the ſeverall *Firings* that may be produced from them; let it now ſuffice that I demonſtrate the *Figure*, and give directions how to *make* and *reduce* them: any ingenious Reader that hath well peruſed my Book, muſt needs (by this time) be able to conceive the ſeverall wayes and *Firings* that each *Figure* may produce, almoſt at firſt ſight. And therefore I will ſpare the paines, and come to the *Reducement* of this *Figure*, leſt the Chapter prove too long. Having *given fire* upon this *Figure*, either to the *Front* or *Reere*, or to both together, and the whole *Body* againe *faced* to the *proper Front*, * Command the *out-moſt diviſions of Pikes to face to the right*

* *Reducement.*

right and left inward, and passe through the Musquettiers into their places: then *face* to the *front*, and all is *Reduced*.

CHAP. CVIII.

Why it is necessary to know variety of formes: the way to make foure severall figures, demonstrated in this Chapter, with their Reducements.

HEe that will *Range his Battalions* alwaies into one *forme*, may be likened to that *Physitian*, or *Chirurgion*, that for all *sicknesses* or sores, hath the selfe-same *potion* or *plaister*. Not considering, that *time*, *number*, *place*, *quality of armes*, and many other like *respects*, will be great sticklers in the ordering of *Armies*. Moreover the number of the *enemy*, his exceeding either in *horse*, or *foot*, the placing of his *Ordnance*, the *order of his array*; any of these or other such like, may induce the *polliticke* and wise Commander sometimes to alter, and vary his forme, as may be most advantagious for himselfe, and *prejudiciall* to his *Enemy*. But proceed we to the *figures* of this Chapter, the which may be done, either by a *single Company*, *Regiment*, or *Army*.* Nevertheless, although I have no more *divisions* of *shot* in my *Figures*, yet if you have numbers sufficient to imbattell, then place more divisions of *Musquettiers* in the *wings*, *front*, *flanks*, *reere*, or any other needfull part, as I have demonstrated by little *printed squares*: So much for the generall, come we now to the particular directions for this following *Figure*.

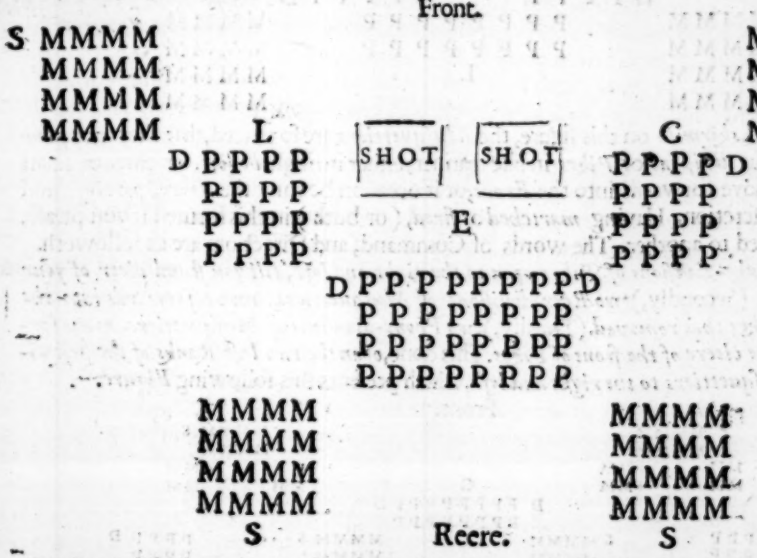
* He that shal alwaies accustome himselfe unto one forme of battell, gives his enemy too much advantage.

Front-halfe-files, *face to the right and left*, Martch till your *Pikes* range even with the *Musquets* of the *Reer-halfe-files*, then, *stand*, *and face to your Leader*.

Halfe-files of Musquettiers face to the Reere (that done) *Musquettiers* (*both of front and reer-division*,) *martch to the Angles of your Pikes* (then) *stand*, and *face all to your Leader*, or *proper Front*.

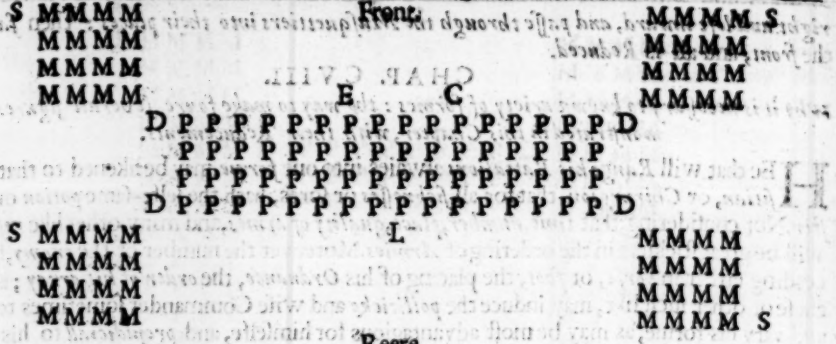
* Every Company ought to be two parts shot the third part Pikes.

The direction to make this forme with a single Company.



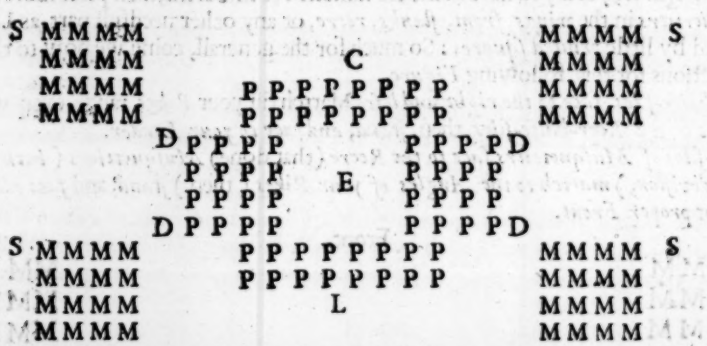
In this *forme* you may *give fire*, to the *front* or *reere*, or both together. You may *give fire*, and still continue your *forme*, or if you please, the *Battell* of *Pikes*, may move forwards, and *Range* with the *flanke divisions* of *Pikes*: the *Reer-divisions* of *Musquettiers facing outward*, and moving after the *Front-divisions* of *Musquets*, even with the *Reer-angles* of *Pikes*, which produceth this ensuing *Figure*.

The way to fire, and alter the forme.



* *The Battell of Pikes are those under* B *in the first figure of this chapter.*

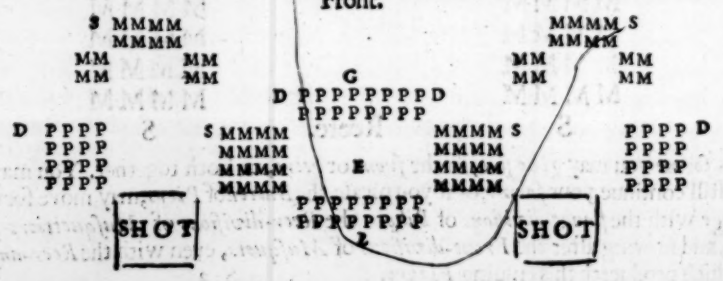
If you cause the *two first ranks* of the**Battell of Pikes* to move forwards, and the *two last Rankes* of the *Battell of Pikes* to move towards the *Reere*: it will produce this ensuing *Figure.*



If you would *skirmish* on this figure, the *Musquettiers* are so placed, that they may *give fire* any way: the *divisions* of *Pikes* in like manner, either in single *bodies*, or three of them *a-breast*, may move forwards into the *Front*, or if occasion be into the *Reere*, *porting*, and *charging* at discretion. Having *martched* or *fired*, (or both) in this forme: if you please, we will proceed to another. The words of Command, and Direction, are as followeth.

* *Direction to make this figure with a single Company.*

* *The two flanke-divisions of Pikes, open to the right and left, till you stand cleer of your Musquettiers.* (Secondly,) *two Reer-divisions of Musquettiers, move forwards into the places of the Pikes that removed.* (Thirdly,) *two Front-divisions of Musquettiers, move forward till you be cleere of the front of Pikes.* This done, *open the two last Ranks of the first divisions of Musquettiers to the right and left*, which presents this following *Figure.*



When

When you peruſe this *Figure*, ſleight it not becauſe of the *thinneſſe* of the numbers in each part; but conceive that where two *Ranks* are placed *ſingle*, there for ſervice, peradventure two *Companies* (or more) may be drawn-up; and ſo anſwerable for each other part, according to the *number* and *ground*. When you *give fire* upon this *Figure*, whether with a *ſingle Company*, or more conjoyned, it muſt be in a *Regimentall* way. The *Pikes ſtand ready ordered*, if need be, to *relieve the Muſquettiers*. But come wee now to the *Reducement* of our *Company* again to their *firſt-order*, wherewith wee will conclude this Chapter.

Two laſt Ranks (of the Wings) *of Muſquets, cloſe your diviſions. Reer-diviſions of Muſquettiers, move forwards, and cloſe your diviſions, after the Muſquettiers in the Front. Two firſt Ranks of Pikes, cloſe-back to the two Ranks in the Reere. Flank-diviſions of Pikes, face inward, and cloſe your diviſions.* Laſtly, Command, *Pikes, move forwards and even your Front of Muſquettiers.* If there be any *Intervals* (or *Diviſions*) in the *Flanks*, Cloſe them, and all is *reduced* as at the firſt. *The reducement.*

CHAP. CIX.

The Trained Bands one of the three main ſtrengths of this Land: the wayes to make them perfect Souldiers in the handling their Armes: The Checker Battell; with ſeverall other formes, either for a Company or Regiment.

IT was the *Spartan glory*, being demanded of her *walls*, to preſent a groſſe of *Military bodies*: wherewith they not onely for many Ages defended themſelves; but raiſed their fame to ſo high a pitch, that they became *terrible* to others. Our *In-land*, with *Sparta*, hath no other *Forts*, *Faſtneſſe*, or *Fortifications*, to withſtand the Enemy, ſave our (I would I might have ſaid *experimented*) *Souldiers breſts*. Take a ſurvey of the whole, and you ſhall ſee, that the ſtrength of our Land (like the *Roman Legions*) conſiſts of our [a] *Haſtati*, *Principi*, and *Triarii*.

[a] Tooke, *his Legend of* Brittimart.

Our *Sea-men* in their *wooden Forts*, and *Caſtles*: our *Rocks*, *Shelves*, and *Sirtes*, that *lie-a-long our Coaſts*: and our *Trained Bands* on the *Land*; our *laſt refuge*, and *chiefe Bulwark* of Defence. Now conſidering the *facility* of the two *former*, how carefully ought we to look to the *latter*? That our *Souldiers* be often *practiſed*, and taught their *Poſtures*, and well-handling of their Armes: That there be places provided for the [b] *Muſquettiers* to *ſhoot Bullets* at the *mark*; (and *Prizes* for them that doe beſt:) That there be places appointed for ſome *Squadrons*, and *diviſions* of each *Armes*, to meet but one houre or two in the week (at times moſt convenient) to be inſtructed in *Motions* and *Firings*, by the ſeverall *Officers* of each *Company*: That there might be ſome *Immunity*, *Priviledges*, or *Allowance*, to the *Officers* of the *Trained Bands*, towards their expence of *time* and *charges*: That there ſhould be countenance and incouragement given to thoſe that are diligent in the practice of *Armes*, and the ſtudy of the *Art Military*. Theſe, and ſuch like *honey dewes*, would water the parched barrenneſſe of our *Militia*, and fatten the root, to a fragrancy of *experiment*: initiating, and ſupplying the nerves and joynts, to an activeneſſe of *motion*. The want hereof, leaves us *dull* and *ſnoring* in the lap of *ſtupid ſecurity*; and renders us *ridiculous* in the *eyes* of our *Enemies*.

[b] *Many of the Trained Bands dare not ſhoot a Bullet for want of practice. And very few know what proportion of powder to uſe to give the due charge.*

But pardon my digreſſion, *the zeale of my Countries good had almoſt intricated my intentions; caſting me a-ſhore where I had not the leaſt intent to ſet the land.* Now, with your good leave, I returne to the work of this Chapter: In the which, and the former, I (for the more delight of ſuch Captains and other Gentlemen, that love to practiſe *numerous*

rous forms and *Figures* of *Battell*, have fitted and ſtored them with *variety*; ſome for the *curious* and *quainter Souldier*; ſome for the *ſollid* and *experimented Souldier*; and ſome to direct the *unskilfull* and *ignorant Souldier*; that ſo either may come and feed according to his own fancy, and not be *cloyed* with a continuall intercourſe to one and the ſelf-ſame *diſh*. The *Command* and *Direction* for the firſt *Figure* followeth:

The Command is, *Two firſt and laſt ranks of Muſquettiers and Pikes, interchange ground.*

That done, *Muſquettiers move till you all ſtand clear of your Pikes.*

The Direction is, *Two firſt and laſt ranks of Pikes, face to the right and left-outward.*

Two firſt and laſt ranks of Muſquettiers, face to the right and left-inward.

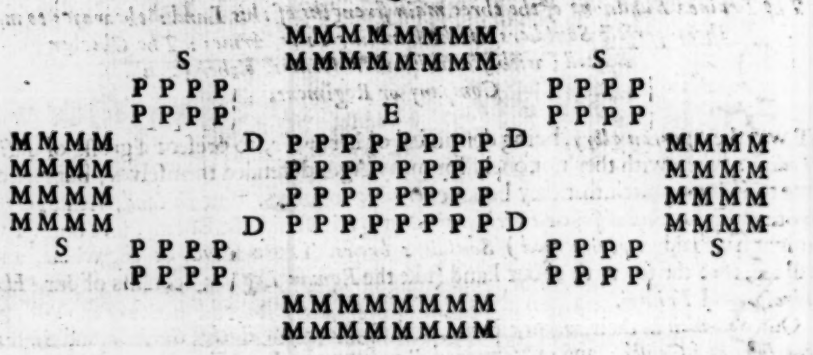
That done, *Interchange ground, and face as before.*

Laſtly, *Let the Muſquettiers of the Front, Reere, and Flanks, move to the Angles of the Pikes, and face all to the firſt-front.*

Front.

C

With larger numbers, where theſe are but two deep, make them 6. 8. or 10. deep. This is a very good form for the Muſquettiers with halfe-pikes.



L

Reere.

In this *form*, the *Muſquettiers* may *give fire* to the *Front*, *Reere*, or *Flanks*; any way, or every way. If you *fire* to the *Front*, the *Muſquettiers* of the *Front-diviſion* having *fired* two or three times over, the two *diviſions* of *Pikes* on their *Angles* may *advance*, and *charge*, whileſt the *Muſquettiers* that laſt *fired*, *face to the right and left by diviſion, and place themſelves behind their Pikes*; the *Muſquettiers* of the *Flanks*, in the interim, *moving forwards*, and *firing* at diſcretion: The *Reſerve*, or *Reere-diviſion* of *Muſquets*, may in like manner be brought-up to *fire*, as you ſee fit; each *diviſion* may be *ſheltred* by their *Pikes*. From this take a ſecond *Figure*, with a little alteration. The *Command*, *Direction*, and *Figure*, followeth:

Two out-moſt files of each Flank of the Front-diviſion of Muſquets, move forward to the Angles of your own Diviſion.

Two out-moſt files of the Reer-diviſion of Muſquets, move to the Reer-angles of your own Diviſion of Muſquets.

By two out-moſt files, underſtand the two outer-moſt files on each part, as well of Front and Reere, as Flanks. And although two deep cannot properly be tearmed a file; yet let it produce no Criticiſme, ſeeing it could not be avoided, conſidering my number.

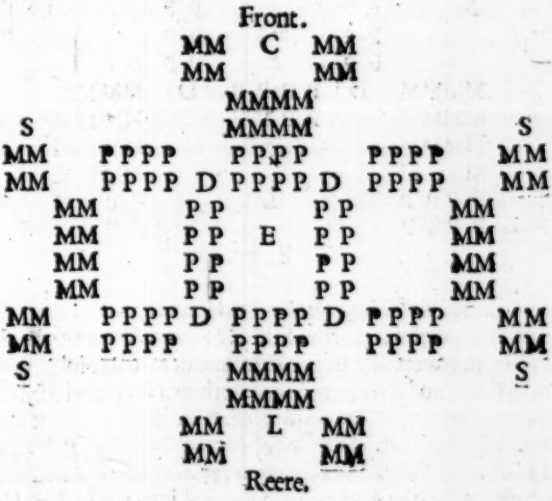
Two

Two laſt Rankes, of the two outer-moſt files of the Flank-diviſions of Muſquets, face to the Reer; and move to the Reer-angles of your owne diviſions.

Two firſt Ranks of the two out-moſt files (of the flanke-diviſions) of Muſquets: move forwards to the front-angles, of your own diviſions.

Foure inmoſt files of the Battell of Pikes: face to the front and reere: (then) move to the Angles of your owne diviſion of Pikes.

The whole Body face to the Front.

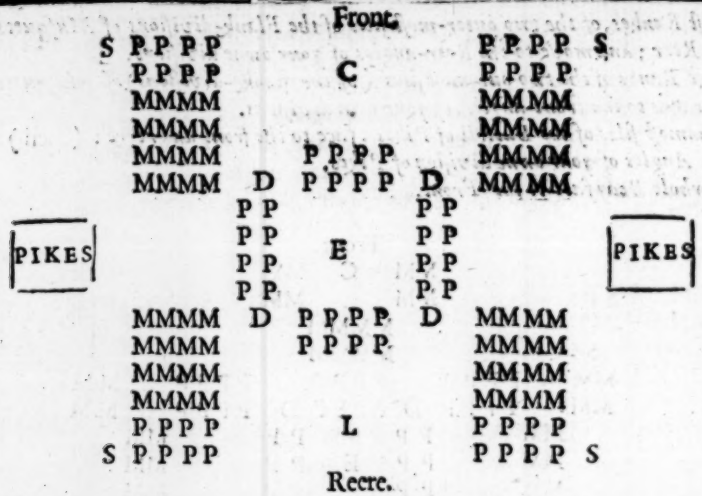


This is a very good form for the Muſquettiers with halfe-pikes.

Although this *Figure* be here demonſtrated by ſuch ſmall *diviſions* of men, let it not perplex the opinion of its worth, rather caſt your eyes on the *ſeverall diviſions of each Armes*, and ſuperviſe their *orderly placing*. How *offenſive* to the *enemie*, how *defenſive to themſelves*. To demonſtrate the ſeverall wayes of *firing* upon it, would prove as *tedious* as needleſſe: Let it ſuffice that they may *fire, advance, retire, powre on their ſhot, and retreat behind their Pikes, inlarge their Intervals*, or *joyne into one groſſe*, any of them, or all of them, at diſcretion. Come we now to a* *firing*, that ſhall produce another *Figure*. Let the *firing* be directed to the *Front* and *Reer*, and to that end command *halfe the Body to face about*; the out-moſt *files* of *Muſquettiers* (which were advanced) begin the *firing*; doing their execution on the ſame ground (without moving forwards at all) by which meanes they become even in *Ranke* with the *Muſquettiers* from whence they were drawn: and ſo *give fire* together, once or twice over.

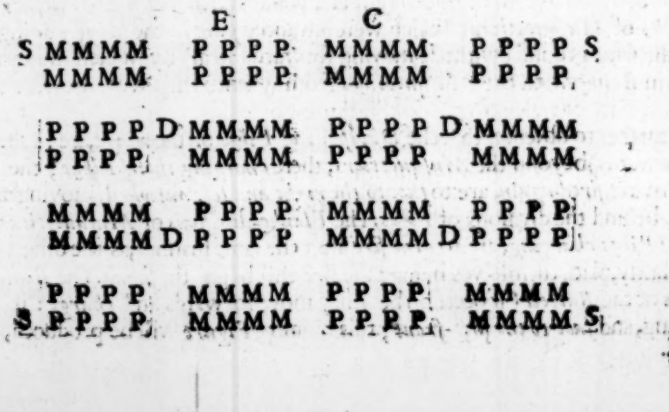
* *A firing to produce another Figure.*

You are further to obſerve, that the *Diviſions of Pikes* on the *wings*, are in the interim to advance (forwards) beyond the *Muſquettiers*, there *charging their Pikes*; the *Muſquettiers* then having *fired again*, are to *face to the right and left outward*, moving and placing themſelves, behind the diviſions of *Pikes*. The *Flanke-diviſions* of *Muſquettiers*, in the interim of the *Pikes charging*, are to *give fire* after the ſame manner, as the others did before them: and laſtly, place themſelves behind the *ſhot* that began the *firing*. The *Bodies* of *Pikes* in the midſt of the *Battell* (if occaſion be) may move forwards and *charge*: if they keepe their ſtanding, and *face to the firſt-front*; this enſuing *Figure* will be produced, &c.



This *Figure* according as the *Muſquettiers* ſtand now placed, is moſt fit for *firings* by *Extraduction*, but may by drawing forth of the *Muſquettiers* be varied into ſeverall other *formes*, as the occaſion and diſcretion of the Commander ſhall thinke meet, as the *Quadruple Horne-Battell*, to *Front* and *Reere*, and many others. Nevertheleſſe, becauſe I would not be tedious, I will next forme the *Checker-battell*. * Therefore to that end, cauſe *the Pikes in the midſt to cloſe their diviſions.* (That done) *let the Battell of Pikes face to the right and left outward, and place themſelves even between the diviſions of Muſquettiers, and all face to the front.* This being done, the Body ſtands divided into two deepe *Hearſes*. Next command, *firſt foure Ranks (of each Hearſe) ſtand, the reſt by foure ranks in a diviſion, move forward, and range even with the front.* This being performed, your Body ſtands in a long *Checker-battell*, 4. deepe, and 32. a-breſt. If you will make them 8 deepe, with diviſions (foure of each Armes) checker-wiſe; Command one of the *flanks* to double the other by *diviſion*. If you pleaſe to make 16. diviſions *Checker-wiſe*, and 8. deep (which is the Figure now intended) command, *left-flanke, double the depth of your right-flanke intire*, the which produceth this following *Figure*.

* The direction to make the Checker-Battel, either with 16. diviſions of each Armes, or with 8 diviſions.

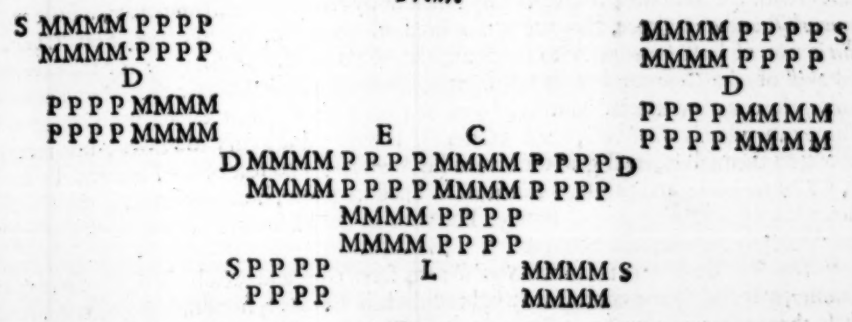


I ſhould

I ſhould be much too tedious, ſhould I enlarge my ſelfe upon the ſeverall *Firings*, and *Figures* of *Battell*, that might be drawn from this *Checker Form*. I ſhall demonſtrate one, and ſo draw towards a concluſion of this Chapter. For the which, command the * *Front-halfe of the Body to face to the right and left-outward*; (then) *move to the Angles of the ſtanding part of the Body*: That being done, *Stand, and face to the Front again*: Next, command the *two Reer-angle-diviſions, face-about, and move to the Angles of the ſtanding part of the Reere*; (then) *face to the Front again*; and it produceth this following *Figure*.

* *By front-halfe, is to be underſtood, that halfe of the Body next to the front.*

Front.



Reere.

Any ingenious *Souldier*, at firſt ſight, may contrive ſeverall wayes, and *Firings*, upon this *Figure*: And therefore, not to diſcourſe what may be done, nor with what varieties to be done, I will come to the *Reducement*.

The reducement.

To which end, in the firſt place, *cloſe your diviſions* again into the *Checker-Battell*.

2. Command the *Front-halfe of the Body, face to the right*, and *move* untill they are *cleare of the ſtanding part*: then *face as before*.

3. Command the *foure out-moſt files, to the right of each diviſion, ſtand*; the reſt of the *Body, by foure files in a diviſion, invert after the right diviſions*. Now your *Body* ſtands in two *Hearſe-Battels*: Let the *hinder-moſt* move forwards even-a-breſt with the *fore-moſt*, keeping the *Intervall open* between them.

4. Command *all the Pikes, of both diviſions, face-inward, and cloſe their diviſions*.

Laſtly, command *Muſquettiers and Pikes, both of Front and Reere, cloſe their diviſions to the Battell of Pikes*. This being done, and all *faced* to the *proper-Front*, they are perfectly *reduced*, as at firſt.

CHAP. CX.

How a Captain, or ſuperiour Commander, ought to be quallified: What is requiſite to every common Souldier. The uſe of variety of Forms and Figures of Battell; with ſeverall Regimentall Forms, that may be practiſed with a ſingle Company, and the Reducement.

NExt after our *Prayers*, for bleſſings from above, *Policy* and *Stratagems* of *Warre* have been found moſt prevalent; as more *availing* than numerous *ſtrength*: ſeldome failing, moſt time gaining the wreath of *Honour*. Yea, perhaps, by ſome meane and ordinary *wile*, the which being once known, growes deſpicable; as falling within the capacity of

Politick Stratagems have many times procured great victories,

of the meaneſt judgements. Of this, *holy Writ*, as well as *prophane Hiſtory*, is ſtored with ſufficient examples.

* *The Souldiers love to their Generall a matter very conſiderable.*

A ſecond *meanes*, conducing towards the *advance of victory*, is the * *love of our Generall, Captain, or Commander*; a *Jem* more prizable and eſtimate, then the beſt *Armours of proofe*; as being of ſuch force with the *Souldier*, that hee will never *ſhunne danger*, nor refuſe to hazzard the greateſt difficulties; (the further) thereby to *ingratiate* himſelfe into the favour of his *worthy Chiefetain*, whom for his *vertues* hee *really affecteth*. For the attaining or gaining this *love of the Souldiers*, it were neceſſary, in the firſt place, that ſuch *Commanders* were known to be *wel-qualified with skill*, having good [a] *experience* of the *Warres*: for the *Souldiers* will not eaſily flinch or fly from ſuch a *Commander*, whoſe *wiſdome, skill*, and *experience*, they are wel-aſſured of. Secondly, the [b] *Valour* of our *Chiefetain* is not of leaſt *importance* to confirme the minds of the *multitude*: for the *courage* and *skill* of the *Commanders* makes even a *cowardly people hardy*: the want thereof, works the contrary effects. Thirdly, [c] *Juſtice*; for that *Captain* which with equity and juſtice can rule his *Souldiers*, neither ſuffering them to doe injury to others, nor receive wrong to themſelves, ſhall gain the love of his *Souldiers*, and fear of his *Enemies*. Fourthly, [d] *Temperance*: and fifthly, [e] *Liberality*. Theſe together, build-up a man fit for the imployment of his *Prince and Countrey*. But whither am I ſoaring? let me check my flight, and return to the common Souldier.

[a] *Experimented skil.*

[b] *Valour.*

[c] *Juſtice.*

[d] *Temperance, and* [e] *Liberality.*

"*Xenophon* declareth, that ſuch *Souldiers* as ſerve *God*, and are obedient to their *Cap-*
"*taines*, may boldly and couragiouſly fight with their *Enemies*, not doubting victory. Adde theſe three other pertinent neceſſaries to every *Souldier*: Firſt, to [f] *harden the body*, that ſo it might be *inured*, and made *capable to endure paines, want, and travell*, with patience. Secondly, to *handle our Armes with facility and ſafety*. Thirdly, to learn to keep our *orders*, in *martching, encamping*, and *fighting*: The which, as it cannot alwayes be in one and the ſelf-ſame *forme*; neither ought the *Armes* to be alwayes placed after one and the ſame manner; but be varied according to the occaſion, and the wiſe fore-ſight of the *politick Commander*. Therefore whoſoever would be perfect in this part of the *Art military*, muſt often accuſtome [g] himſelfe to the contriving and *drawing-forth* of many and ſeverall *forms* of *Battell*, conſulting their ſeverall *uſes*: As ſome againſt *Horſe*, others againſt *Foot*; ſome againſt *Horſe and Foot*: ſome for *Straits*, ſome for *Campania*, ſome for *Hilly and Mountainous places*, other for *valleys and watry places*; ſome for *boggy and rotten ground*, ſome for *woody and buſhy grounds*; ſome for *night*, and ſome for *day*. Theſe notwithſtanding, *time, number*, and *place*, will thruſt-in *accidents*, and often cauſe alteration of the moſt ſetled and ſelected *form*. Nevertheleſſe, the *Captain* thus ſorted for all occaſions *(like the skilfull Chirurgion, having ſalves for every ſore)* may with more *boldneſſe* addreſſe himſelfe to ſuch enterpriſes, as by *command*, or *chance*, ſhall be caſt upon him.

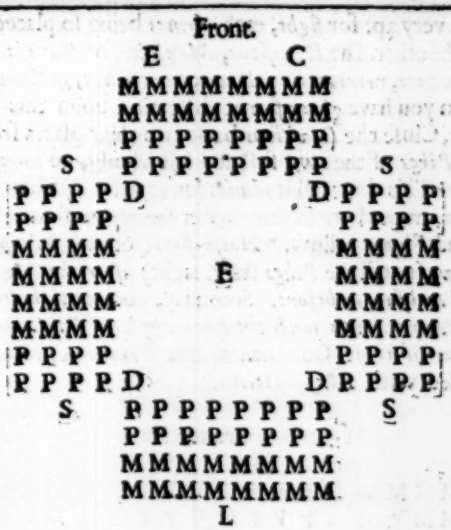
[f] *Souldiers ſhould inure their bodies to hardſhip. Hanniball effeminated his Souldiers by once wintering them in Capua.*

[g] *Excellent Commanders doe often accuſtom themſelves to contrive and imbattell ſeverall forms.*

Theſe conſiderations promp me to proceed; queſtioning the length of my diſcourſe, that hath ſo long detained you from the *Figures* of this Chapter. The which that I may timely remedy, take the [h] *Command* and *Direction* for this following *Figure*. Command the *Muſquettiers of the two firſt and laſt ranks face-inward*, the *Pikes of the ſame ranks face-outward, and interchange ground with the Muſquettiers*. Secondly, Command the *Reere-halfe of the* 8. *inner-moſt files face-about*: That done, Laſtly, let the 8. *files, ſo faced to the Front and Reere, move to the inner-moſt Front and Reere-angles, then ſtand, and face all to the proper-Front*; by which this *Figure* is produced.

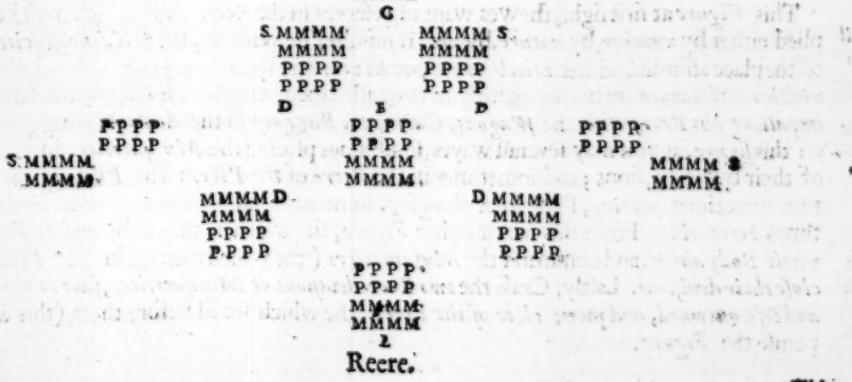
[h] *The Command and Direction to make the following Figure.*

Front



The Musquettiers of the flanke divisions, may bee drawn forth cleer of their Pikes, and fire any way according to direction, or they may give fire by extraduction.

Having *fired* at discretion upon this *Figure*, and brought them againe into the same *Order*. Observe a second forme drawne from the first. To make the which, Command the *first foure Ranks of the flanke divisions face outward, and move cleere of the last foure Ranks*: then stand, and *face as before*. Secondly, command the *front-division open to the right, and left* (untill they have made a *sufficient Intervall* to receive another *division*;) then stand. Thirdly, command the *left-flanke*, (or *halfe-ranks*) of the *Reer-division advance forwards and place themselves behind the Intervall, of the Front-divisions*. Lastly, Command the *Musquettiers, on the outer-most divisions, face outward, and move cleer of their Pikes*. These Commands *duely executed*, renders this following *Figure*.



This

This *Figure* ſtands very apt for *fight*, each *Armes* being ſo placed, that they may be ayding and aſſiſting to the other. The *Diviſions*, *Maniples*, or *Battels* are ſo orderly contrived, that they may *advance*, *retreat*, or *releeve* one another, without any let, impediment, or incumbrance. When you have *given fire* at diſcretion upon this *Figure*, if you would come to a *Reducement*, Cloſe the *Diviſions* backe to their places from whence you drew them; and cauſe the *Pikes* of the two firſt and laſt *Ranks*, to interchange ground againe with the *Muſquettiers*. This done, all is *reduced* as at firſt. But before we come to the concluſion of this Chapter, proceed we to ſome other *formes*, to ſatisfie the deſirous. The *Commands*, *Directions*, and *Figure* follow. * *Halfe-files* (of each Armes) *Face to the right and left outward, and move* (untill the *Pikes* ſtand right) *after the Muſquettiers of the Front-halfe-files* (then) *ſtand and face as before.* Secondly, command *halfe-files of Muſquettiers face-about, and move downe, even with the Reer-angles of Pikes*, then *ſtand and face to the front.* By the execution of theſe Commands, this *Figure* is produced from the ordinary ſquare of *Pikes* flanked with *Muſquettiers*.

The direction to make the following Figure.

Front.

E C

S M M M M D P P P P P P P P D M M M M S
M M M M P P P P P P P P M M M M
M M M M P P P P P P P P M M M M
M M M M P P P P P P P P M M M M
P P P P P P P P M M M M
P P P P L P P P P
P P P P P P P P
P P P P P P P P

S M M M M D D M M M M S
M M M M M M M M
M M M M M M M M
M M M M M M M M

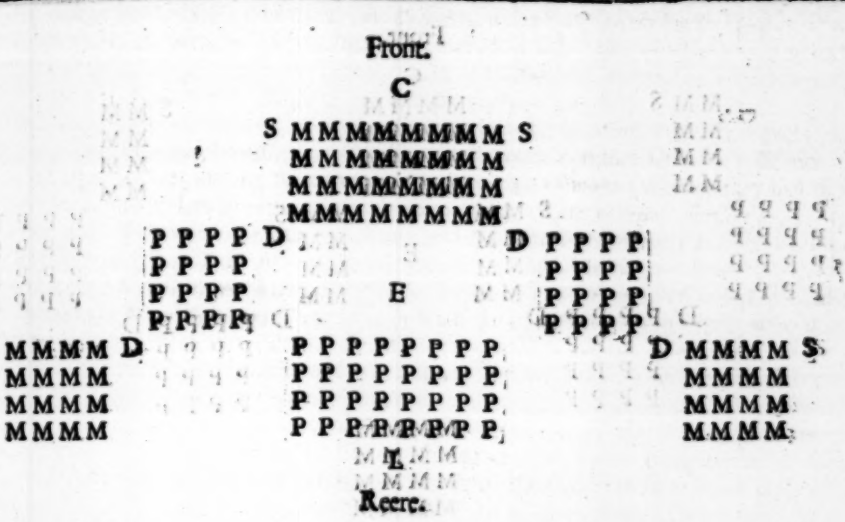
Reere.

This *Figure* at firſt ſight, ſhewes want of reſerves in the *Reere*: the which muſt be ſupplied either by *number*, by *nature*, by *art*. If number be wanting, the * *Naturall ſcituation* of the place affording either *Ditch*, *Wood*, or *River*, may ſuffice as a *reaſonable defence*. If *number* and *nature* be both niggardly in their aſſiſtance: then let *Art* ſupply the defect, by *impalling the Reer*, with the *Wagons*, *Carts*, and *Baggage* of the *Army*. Having *given fire* on this *figure*, as you may ſeverall wayes, ſometimes placing the *Muſquettiers* in the *Reer* of their owne diviſions; and ſometimes in the *Reere* of the *Pikes*: The *Pikes* in the mean time ſometimes *porting*, ſometimes *charging*, ſometimes *advancing* forwards, and ſometimes *retreating*. From this take another *Figure*, the which is thus to be made: *Face the whole Body about*, and command the *Muſquettiers* (the which then are in the * *Front*) *to cloſe their diviſions.* Laſtly, Cauſe the *two Reer-diviſions of Muſquettiers, face to the right and left outward, and move cleer of the Pikes*, the which ſtood before them, (this done,) peruſe the *Figure*.

**Naturall ſcituation availes much for the defence of a Battell.*

** This facing-about hath made the reere the front.*

Front;



When you *give fire* on this *Figure*, the *Muſquettiers* of the *Front-diviſion* are to *wheele off* to the *right and left*: Nevertheleſſe, if you would have them *wheele* all *off* to the *right*, then open the *Muſquettiers* in the *midſt*, and make them an *Interuall*. Having practiſed and tried your *Souldiers* ſufficiently on this *Figure*, wee will come to another: but firſt, * *face your Body about again after their proper File-leaders.* Secondly, Command the *Front-diviſion of Pikes, face to the right and left*, then *move*, and place themſelves *before the two other diviſions of Pikes.* Thirdly, Command the *two Front-diviſions of Muſquettiers move forwards, untill their Reere be even with the Front of Pikes*; then, *faces inwards, cloſe their diviſions, and face to the Front.* This produceth a *hollow Square*, the *Muſquettiers* being in the *Front and Reere-diviſions*, the *Pikes* on the *Flank-diviſions*. I forbeare the *Figure*, being the ſame with that in Chapter 103. Proceed wee to our next *Figure*; to make the which, firſt Command,

* *The Body re-faced about after the proper file-leaders.*

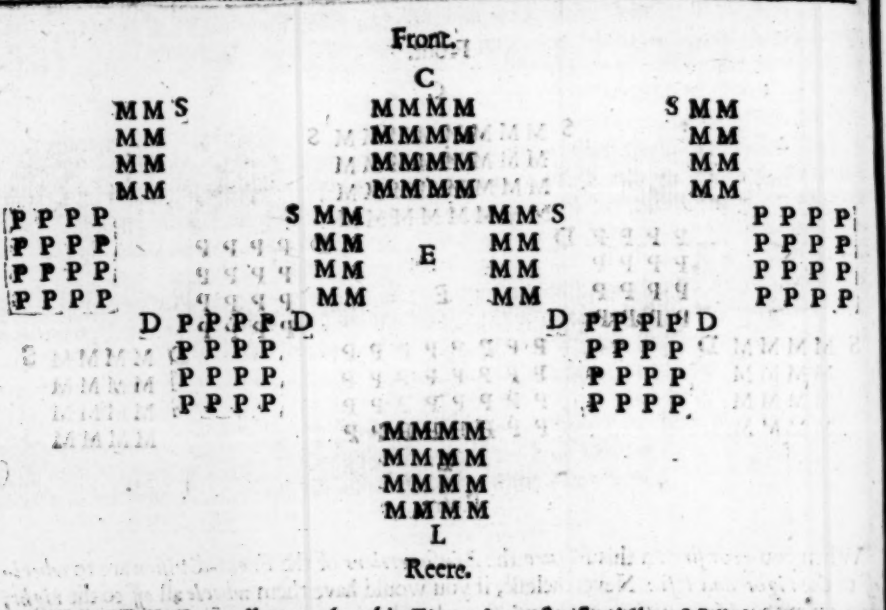
Two out-moſt files (of each Flank) of the Front-diviſions of Muſquettiers, face to the right and left; then, *move to the out-moſt Angles of your Pikes.*

The direction to make this following Figure.

Secondly, Command the *two out-moſt files of each Flank of the Reer-diviſion of Muſquettiers, ſleeve-up on the in-ſide of the Front-diviſion of Pikes.*

Thirdly, Cauſe the *Front-halfe-files, of each diviſion of Pikes, face-outward, and move to the out-moſt Angles of your Wings of ſhot. Face all to the Front.*

Front.



It were needleſſe to tell you, that this *Figure* is moſt eſpecially uſefull for *Firings* in *Front*: Nevertheleſſe, it may in like manner very fitly ſerve for *Firings* in the *Reer*, provided, that you *face them about*, and then *move forwards your ſmall diviſions of Muſquettiers into the Front*: By which means, in like manner, it might be made a ſerviceable *Firing*. But not deſiring to be tedious, I will come to the *Reducement*, and ſo conclude this Chapter. First, Command the *two out-moſt files (or wings) of Muſquettiers face-inward, and cloſe their diviſions*. Secondly, Cauſe the *Muſquettiers in the Reere to move forwards into the Intervall ſtraight before them*. Thirdly, Command the *outer-moſt diviſions of Pikes face-inward, and cloſe before the Reere-diviſions of Pikes*: then, *face as before, move forwards, and even the Front of Muſquettiers*. (This done, your *Muſquets* are all in the *midſt*, the *Pikes* on the *flanks*.) Laſtly, Command, *Muſquettiers and Pikes, interchange ground*. This brings all into the firſt order.

The Reducement.

CHAP. CXI.

Of the Muſquet and halfe-pike, with the ſeverall wayes that have been tried to make the Muſquettier defenſible againſt the Horſe. As alſo, tenne Queries objected, to the Halfe-pike and Muſquet.

WHen I firſt began this Edition, I had not the leaſt intent to ſpeak any thing of the uſe of the *Halfe-pike* and *Muſquet*, but have wholly reſerved it untill another time; yet at the importunity of ſome of my familiar friends, though it were late, yet they were not willing it ſhould be left out. Nevertheleſſe, when I conſidered that it had been the unhappy fate, even of the *greateſt* and *beſt inventions*, to be embaſed and vilified; yea, and to be accounted of but as idle fancies or dreames, before they were publiſhed; and being once made known, ſuffering too much embaſement, as being often under-valued, and accounted of but as a thing that every one could have well performed. And hereof I

might

might demonſtrate many examples. Wherefore, if the * *paſſion* of *Envie* have in it any thing *allowable* and *naturall*, as having *anger*, *fear*, and other like *affections*, it is in ſome ſuch caſe as this; and ſerveth againſt thoſe which would uſurp, and take to themſelves the *knowledge* and *invention* wherewith *God* hath denied to indue them. * Rawleigh Hiſt. mundi.

Therefore, were it not for the common good, and the great affection that every one ought to beare to his Countrey, it would appeare more commendable in wiſe men to conceale their ſtudies, making their *funerals* in their own *boſomes* (whence they had their firſt *births*) rather then to expoſe them to the publike, where *vertuous ſtudies are too often cruciated* by the *darts of envie*, which *malignant ſpirits too frequently poure upon them*. Notwithſtanding, I will not altogether diſcourage my ſelfe, although I know by ſufficient triall, that *Cynnicks will bark at thoſe they know not*; and *others, of as bad a nature, will accompany their clamours*: For ſo it is with the inconſiderate multitude, who wanting that *vertue* which wee call *honeſty*, and that *ſpeciall grace* which wee call *charity*, *condemne* without *hearing*, and *wound* without any *offence given*. This I can ſpeak, with *pitty* to my ſelfe, as having too frequent and familiar *experience* thereof. But of theſe *Natures*, that *lie as it were in* * *ambuſh, to carp and find fault*, endeavouring to wreſt *good intentions* to their *evill conſtructions*; ſeeing the *Wiſe-man* complained of ſuch long ſince, and that *Nature* hath not been wanting to thruſt-off the ſame *brood* daily into the World, as bad, and perhaps more malicious; I will leave them to their eaſie wayes of reprehenſion, then which there is nothing of more facility, and return to the work of this Chapter. * Eccleſ. 31. 31.

Having often conſidered with my ſelfe the danger of the *Muſquettier*, and how unable hee is to *reſiſt the Horſe*, after hee hath *poured forth his ſhot*, without hee be *ſheltered* either by ſome *naturall* or *artificiall defence*; and withall having knowledge, that in ſeverall parts of *Chriſtendome* divers *Captains and Souldiers* have oft been trying concluſions, to make the *Muſquettiers* as well *defenſive* as *offenſive*; ſome by *unſcrewing the heads of their Reſts, and then ſcrewing the ſtaffe of their Reſts into the muzzel of the Muſquet*, with the *arming of a Pike at the lower-end*; by which means, they would uſe the *Muſquet* and *Reſt* together, in the nature of a whole *Pike*. But this proved ſo tedious and troubleſome, that it fell without profit. Another ſort had made *Reſts*, with the one end of the *fork* (or *head*) being like a *ſpike*, about 18. inches in length: This alſo proved extreame troubleſome to themſelves, *dangerous* to their *fellowes*, and of no *validity* againſt the *Enemy*. A third ſort had *halfe-pikes* of about 7. or 8. foot in length, uſing it after the manner of a *Reſt*; but all the while the *Muſquettier* was *charging* (his *Muſquet*) one of them was enough to trouble a *whole file* beſides the danger in the *recovery*. A fourth ſort there was (yet better then the former) that with a *hook was faſtned to the girdle, the while the Muſquettier was making ready*; but this had his defects alſo, as being both *tedious* and *troubleſome*. Many other wayes and concluſions have alſo been tried, with ſucceſſe like the former, which I forbeare to demonſtrate; for as their conceits proved uſeleſſe, ſo the diſcourſe would prove as fruitleſſe. Laſtly, my *ſelfe*, with another * *Gentleman of our ground*, (both wel-affecting the uſe of the *Muſquet*) found out a way to uſe the *Halfe-pike* and *Muſquet*, with ſo much *facility* and *eaſe*, that it is *farre leſſe troubleſome than the Reſt*; and yet of a *greater length* than any of the former *Reſts*, or *Halfe-pikes*; as being compleat 10. foot in *length*, with the *arming*. * Mr. John Davies of Black-friers.

All the former *devices*, if they could have been brought to any *maturity*, yet would have falne farre ſhort of this, for the *triple uſe thereof*: As being a *Reſt*, if there be no further occaſion: As being a * *Palliſado* (if there be occaſion) to *defend the Muſquettier from the Horſe*: As being a *Half-pike to uſe in Trenches*; as alſo when our *ſhot* have *poured out a feather* * Or ſuch like.

great volly or ſhower of *Lead* on the adverſe *Muſquettiers*, they may then *nimbly* with their *halfe-pikes fall in amongſt them*. And laſtly, for the *purſuit* of an *enemy*, it being of all others the *beſt weapon*.

* *Muſquettiers with halfe-pikes fitteſt for to be ſent in parties.*

If a *party* of *Muſquettiers* were to be ſent out, thoſe uſing the *halfe-pike* of all others are the fitteſt, for that they are able to *offend their enemies*, and beſt able to *defend* themſelves. If after they have *given fire*, they ſhould be *overtaken* before they have *made ready again*, and *charged by the Horſe*; Yet they are able to defend themſelves with their *halfe-pikes*, even in the time they are *charging*: for the *front-half-files* may couch with their *halfe-pikes charged breſt-high, and ſwords drawne to keepe off the Horſe*, whilſt the *Reer-halfe-files give fire* over them, whereby they will bee ſufficiently able to *defend* themſelves, and *annoy their enemies*. In a word, the *halfe-pike* and *Muſquet* for them that know how to manage it, is of ſo *excellent uſe*, that the worth thereof cannot, nor ought not to be confined to the poore demonſtration of an unskillfull Writer, that will not take the liberty of a Hen to keckle over her owne egge: but leave it to the wide world to vindicate its owne reputation. Therfore now let us come ſomewhat neerer, and examine *what queries* or *objections*, have been made againſt it, and you ſhall find theſe *tenne* following, *viz.*

1. *If Muſquettiers with half-pikes be to encounter againſt Pikemen and Muſquettiers with Reſts (ſeeing there hath been no triall) whether Armes in reaſon would have the advantage.*

2. *Whether the Muſquet and halfe-pike be as ſerviceable againſt Horſe, as the Muſquettier with the Reſt and whole Pikes.*

3. *Whether the Muſquet and Halfe-pike, can as conveniently be uſed in all reſpects as the Muſquet and Reſt.*

4. *Whether the Muſquet and Halfe-pike bee uſefull in Trenches and Fortifications.*

5. *Whether the Muſquets with Half-pikes can be uſed in woods, where ambuſhments are uſuall laid, if not, where thoſe halfe-pikes are to be beſtowed.*

6. *Whether the charge wherein the halfe-pike exceeds the Reſt, will be countervailed by the ſervices it hath beyond the Reſt.*

7. *Whether in Company, or Regiment, it be convenient and neceſſary, to have whole Pikes, or no.*

8. *Whether Palliſadoes or ſwines-feathers, be not as ſerviceable againſt the Horſe, as the Halfe-pike.*

9. *Whether if all theſe queries and objections have a ſatisfactory anſwer, it be neceſſary or convenient, that the uſe of the Half-pike and Muſquet be knowne, before we have publique occaſion for ſervice.*

10. *Whether the weight of Halfe-pike, by which it exceedeth the Reſt, be not more troubleſome counter-poiſing all the benefits it hath before the Reſt.*

Theſe *Queries* have been urged by men not of the meaneſt *Ranke*, nor *skill*, but even of ſuch whoſe *opinions* were very *conſiderable*, and whoſe *judgements* could not *eaſily be miſled*, unto which they received ſuch ſatisfactory anſwers, as you may further peruſe in the Chapter following.

CHAP. CXII.

The tenne Queries objected to the Muſquet and halfe-pike fully anſwered. The Halfe-pike joyned with the Muſquet approved to be very uſefull, as having received approbation from divers Souldiers of great Ranke and quality.

HAving in the laſt Chapter ſhewed the queries objected to the *Halfe-pikes* and *Muſquet*; Come we now without preamble, to give an anſwer to each of them ſucceſſively.

ly. To the firſt wee ſay, That * *Muſquettiers* with *halfe-pikes* have the oddes, againſt *Muſquettiers with Reſts* and *whole Pikes*, for theſe and ſuch like reaſons; for preſuppoſe what number you pleaſe, the one halfe *whole Pikes*, *the other halfe Muſquettiers and Reſts*. The *fight* being begun at *diſtance* (as muſt needs be conceived) the *halfe-pike-men poure on a great deale more ſhot, at leaſt three to one*: by which meanes the adverſe part muſt needs be *broken and ſpoiled*, before they can poſſibly come up to the *puſh of pike*. Secondly, they that eſcape death and wounds, if their hearts ſerve them to come up to the *puſh*, will be ſo *weary*, *wind-leſſe*, and out of *order*, with their *haſt*, that they will not be able to ſtand againſt their Adverſaries, who *keeping their ground*, will neither be *weary nor out of order*. Thirdly, the *Muſquettiers* that come up *a-breſt* even with their *Pikes*, will with them be ſufferers of the like inconveniences; and now being come to *cloſe fight*, are not poſſibly able with their *Reſts*, to withſtand the better armed *halfe-pike-man*. Fourthly, if there were any reaſonable proportion of *whole Pikes joyned* with the *half-pikes* and *Muſquets*; the advantage then would be unqueſtionable. **To the firſt.*

To the ſecond we ſay, That *Muſquettiers with halfe-pikes*, *in ſtead of Reſts*, are more *ſerviceable againſt horſe*, *then whole Pikes and Muſquettiers with Reſts*, for theſe reaſons: Firſt, *Whole Pikes alone are too weake*, becauſe the *Horſe-man* carries *fiery weapons*, and can *kill the Pike-man at diſtance*, they neither being able to *defend* themſelves, nor *offend* their *enemies*. Secondly, *Muſquettiers with Reſts*, are not able in open *Campania*, to withſtand the *able and reſolute Horſe-men*, which will *break* them through and through. Thirdly, Both conjoyned in one *body* are too *weake* in *open*, and *even Countries* to withſtand the *Horſe*: for if your *Pikes* bee *flanked* with *Muſquettiers* (according to the uſuall manner) then the *Horſe-men kill the Pikes* at diſtance (as aforeſaid) and *rout* and *plunder the Muſquettiers on the flanks*, they having little poſſibility of aide from their *Pike-men*, when the *Horſe* are entred *pell-mell* amongſt the *Muſquetiers*, *knocking* and treading them downe. Fourthly, If they draw into any other forme of *impalment*, then one armes becomes a trouble to the other, neither being able to performe their due *execution*. Fifthly, *Muſquettiers* with *Halfe-pikes*, are able in any *forme* or *figure* of Battell, to defend themſelves from being broken by the *Horſe*, and by ſo much as their *firie weapon* doth exceed the *Horſe-mans in execution*; by ſo much they will be too ſtrong for him in the *open field*: and farre more in a *ſtraight* or place of *advantage*; where either *Nature* or *Art* hath ſecured the *flankes*.

To the third we ſay, That the *Half-pike joyned with the Muſquet*, may as conveniently in all reſpects be uſed for **eaſe*, and indeed is more accommodable then the *Reſt*, being more *expedite* for *execution*, and farre more ſafe for *defence*. **The Reſt was deviſed onely for to eaſe men when the Muſquets were of* 18. *or* 20. l. *weight: But now the Muſquets are made lighter* (*as not exceeding* 10 l. *or* 10. l. *and* ½ *in the Magazines*) *the Reſt is of ſmall uſe: therefore no marvaile the Souldiers throw them away. But the Halfe-pike is an offenſive weapon, yea ſo far exceeding the Reſt, that it is many waies more ſerviceable then the ſword it ſelfe, both for offence and defence.*

To the fourth we ſay, That the *Reſt* is of no uſe in *Trenches* and *Fortifications*, where men preſent upon a *breſt-worke* or *parapet*: the *halfe-pike* in ſuch caſes may be *uſefull*; as when it happens they come to *cloſe fight*, where it proves advantagious.

To the fift we ſay, Neither *Reſts* nor *Halfe-pikes* are neceſſary or uſefull for the *Muſquettier* to *carry* in *woods and thickets*: whether it be to lay *ambuſhments*, or to the contrary to *ſearch them out*, and *beat them off*. Yet in ſuch caſes they are farre more uſefull then *whole Pikes*, being more eaſily mannaged. Nevertheleſſe if it be in great *timber-woods and forreſts*, there the *halfe-pike* may prove *uſefull* and *portable*. But if it ſhall be found inconvenient for ſuch *ſervice*, then they are to be diſpoſed in the *Carts*, and *Wagons* of *Ammunition* or elſe-where, as opportunity ſhall be offered.

To the ſixth we ſay, That the ſervice conſidered of the *Halfe-pike*, the charge of it above the *Reſt*, is not conſiderable: for a *ſerviceable Halfe-pike* may be had for 2. s. 6. d. which exceeds not much the price of a *Reſt*. Further, when it ſhall appeare, that the *Halfe-pike* and *Muſquet* will prove more advantagious to our Nation, in caſe of invaſion, then it can be to any Enemy invading; then it may be preſumed, were the charge farre greater then it is, yet it ought not to be neglected.

To the ſeventh we ſay, That *whole Pikes* by no meanes are to be left, or neglected; becauſe, for ſome ſervices they are eſpecially uſefull: notwithſtanding $\frac{1}{3}$ or $\frac{1}{4}$ part at the moſt is ſufficient, either for *Company*, or *Regiment*; for the *Muſquettiers* are eaſily transferred into *Pike-men*, by changing of their Armes when occaſion requireth, but the *Pike-man* cannot ſo ſoone, nor ſo eaſily be made a *Muſquettier*, when the ſuddenneſſe of the occaſion, or the quality of the Warres ſhall require it.

To the eighth we ſay, That *Halfe-pikes* are equally uſefull and ſerviceable againſt the Horſe, as the *Palliſado*, when in the ſame kind they are uſed, *viz.* being ſtrucke or faſtned into the ground; and hath theſe * advantages above the *Palliſado*. Firſt, the *Palliſado* is alwayes troubleſome to the *Muſquettier* in the carrying, being never helpfull in the *Match*: But the *Halfe-pike*, like the *Reſt*, (and better) affordeth much eaſe to him that carrieth it, without trouble. Secondly, the *Muſquettier*, while hee carrieth his *Palliſado* in his hand, cannot *give fire* upon occaſion; but the *Halfe-pike* is then as *uſefull* as the *Reſt*. Thirdly, there can no uſe be made of the *Palliſado* againſt *Foot*: but the *Halfe-pike* is then a ſerviceable weapon; and indeed is not onely *Halfe-pike*, but alſo hath all the accommodations both of *Reſt* and *Palliſado*.

* *The Halfe-pike may be ſooner grounded than the Palliſado.*

To the ninth wee ſay, Becauſe *England* is ill-furniſhed with Horſe, the benefit of the *Halfe-pike*, in defending the Charge of invading Horſe, is more neceſſary for us to embrace, than for others; and therefore it ought by us generally to be practiſed.

To the tenth we ſay, That which hath been already delivered, and continuall practice will make manifeſt, Firſt, that the weight the *Halfe-pike* hath above the *Reſt* is *doubly recompenſed* by other benefits. Secondly, Experience makes it appeare, that the weight, though it be more then of the *Reſt*, yet it is no way more troubleſome.

Let me adde one benefit more of the *Halfe-pike*, although it concerne none of the Queries: The *Muſquettier*, whether hee uſe *Reſt* or *halfe-pike*, can doe no *execution* at any great diſtance, if he want *powder*, *match*, or *bullet*, the which often are in the one or other found defective; then the *Halfe-pike* is uſefull. Secondly, grant the *Muſquettiers* to be wel-accommodated with fix *Arms*, and wel-fitted with good *powder*, *match*, and *bullet*, yet ſometimes the extremity of weather, even in the joyning of the *Battell*, may make the fiery weapon of no uſe, by exceſſe of haile, ſnow, rain, or the like: but then ſhall the *Halfpike* have great advantage above the *Reſts*, it then being a ſerviceable weapon, either offenſive or defenſive.

Now although this might ſuffice to give ſatisfaction to any rationall men, yet beſides this, it hath had the *approbation* of many of the better ſort of *Souldiers*, that have ſeen the uſe thereof: as Sir *Thomas Glenham* Colonell, a Gentleman of as ſerene a judgement, and as great a lover of *Armes*, as any I know in the *whole Kingdome*; as alſo Lievtenant Colonel *Chamberlain*, an approved *Souldier* in moſt of the *German* Warres, the which have been in our time; who took ſuch an eſpeciall liking to it, that hee cauſed a *Swediſh youth* that attended him, to learn the *uſe thereof*, and two of his *Serjeants*. Many others, both of skill and quality, that have ſeen it practiſed, have alſo given their approbation unto it. But I would not be tedious; therefore take this one for all, the which may ſerve to ſtop the mouths of the moſt malicious; it is a Letter ſent by the Lord Viſcount WIMBALDON,

DON, *to the Preſident, and Gentlemen of the Artillery Garden, London,* the third of *March,* 1637. The Copy of which Letter I have inſerted *verbatim,* as followeth.

The uſe of the Halfe-pike and Muſquet together.

WHereas the *Halfe-pike* and *Muſquet* being practiſed by ſome *Gentlemen* uſing *Armes* in the *Artillery Garden,* which are *Armes* both *offenſive* and *defenſive,* and, after conſideration of them, being deſired to give my opinion of their uſefulneſſe; Theſe are to certifie, that having well conſidered of the uſefulneſſe of the Invention, my judgement is, that *theſe Armes may prove very ſerviceable, and advantagious to the defence of the Kingdome; and therefore I hold it fit that they ſhould be practiſed,* for theſe Reaſons following:

Firſt, That in regard that the greateſt danger of this Kingdome doth conſiſt in being ſurpriſed, and that there is nothing can defend *a Landing-place better,* then *Horſe* with *Muſquettiers* behind them; So I hold the *Halfe-pike* the more ſerviceable, for that the *Horſe* ſhall carry both *offence* and *defence* by thoſe *Armes,* and in farre ſhorter time come to the *Landing-place,* then any *Foot*; the *Horſe marching* further in a day, then the *Foot* in three.

Secondly, They are better then *ſingle Muſquettiers to force a Quarter,* being mounted-up behind *Horſe-men.*

Thirdly, They are good in *Trenches*; for they will be able to defend themſelves with their *Halfe-pikes,* after they have *diſcharged* their *Muſquets*; for want of which, the *ſingle Muſquettier* is forced to retire, to a great confuſion, and hindring thoſe that are behind them.

Fourthly, And above all things in *Skirmiſhes,* when no *Pikes* are able to defend them, they are able to defend themſelves; and when they doe retire, as ordinarily they doe behind the *Reere* of the *Pikes,* being forced by a ſtronger *Enemy,* they are able to *gall the Enemy* upon the *Flanks,* and doe great ſervice without danger.

Fifthly, In *narrow ſtraits and paſſages,* they can *defend* and *offend* more then any *Pikes* or *Muſquettiers*; for where *Pikes* and *Muſquettiers* cannot ſerve, they will doe double ſervice with ſingle Bodies.

For theſe and ſome other Reaſons, I approve of the exerciſe of them in your ſeverall meetings; and doe think it fit, *that all ſuch Practitioners of theſe Armes* (which I could wiſh were more) *be not interrupted nor hindred in the uſe of them, but may receive good incouragements, for the better proſecution and finding out the compleat uſe and perfection of them:* And that the *Captain* and other *Commanders* of the *Company,* at their ſeverall times of *exerciſing, conſtantly put in practice the ſaid Armes*; which I doubt not but will be found very advantagious to his Majeſties ſervice.

Cecill houſe, Martii 3. 1637. WIMBALDON.

CHAP. CXIII.

Of the Halfe-pike, how it may be ſerviceable on all forms: with ſeverall Figures, indifferently uſefull to Halfe-pike or Reſt.

THe *Muſquet and Halfe-pike,* having thus vindicated its reputation, it were needleſſe to ſpeak further to it; although much more might be ſaid to good purpoſe, in the further *approbation* thereof. Nevertheleſſe, being that as yet it hath not been ſeen by his Majeſty, and his Councell of Warre; and till then it can receive no generall allowance; the

uſe thereof for the preſent, being onely for voluntary Companies, and ſuch other Gentlemen, that practiſe the experiment for the good of the Kingdome; Therefore I muſt entreat my loving friends at preſent to accept of the *Poſtures* of the *Muſquet* and *Half-pike*; and hold me excuſed that I doe not inlarge my ſelfe in diſcourſing the *motions*, *formes*, and *figures* moſt proper to that weapon: Seeing I hope before it be long the uſe thereof being perceived, will be enjoyned by authority, and then God willing, I will write ſomething for the *Muſquet* and *Halfe-pike* by it ſelfe. And now we will proceed to the *Poſtures* ſuppoſing our *Muſquettiers* to come ready *charged* and *ſhouldered* into the *field*, and from thence make the entrance upon our *Poſtures* of the *Muſquet* and *Half-pike*.

The *Carriage* of the *Halfe-pike* upon a *march*, may be uſefull theſe four ſeverall waies.

Viz. The *Muſquets* being ſhouldered, the *Halfe-pikes*, *Advanced.* *Ordered.* *Comported.* *Trailed.*

1. *A full Body of Muſquettiers martching with Halfe-pikes advanced, is glorious to behold to our friends: Terrible to be ſeene of our enemies.*
2. *Martching with Halfe-pikes ordered, is no other but as a ſtaffe to eaſe you in your martch; or as you uſe the Reſt martching in the right-hand.*
3. *Comporting your Halfe-pikes martching, is to be underſtood, when you martch under Trees, or ſome ſuch place where they cannot be ordered or advanced.*
4. *Treyling your Halfe-pikes is at ſuch time as you martch thorow low woods, and thickets, when the Halfe-pikes can neither be advanced, ordered, nor comported.*

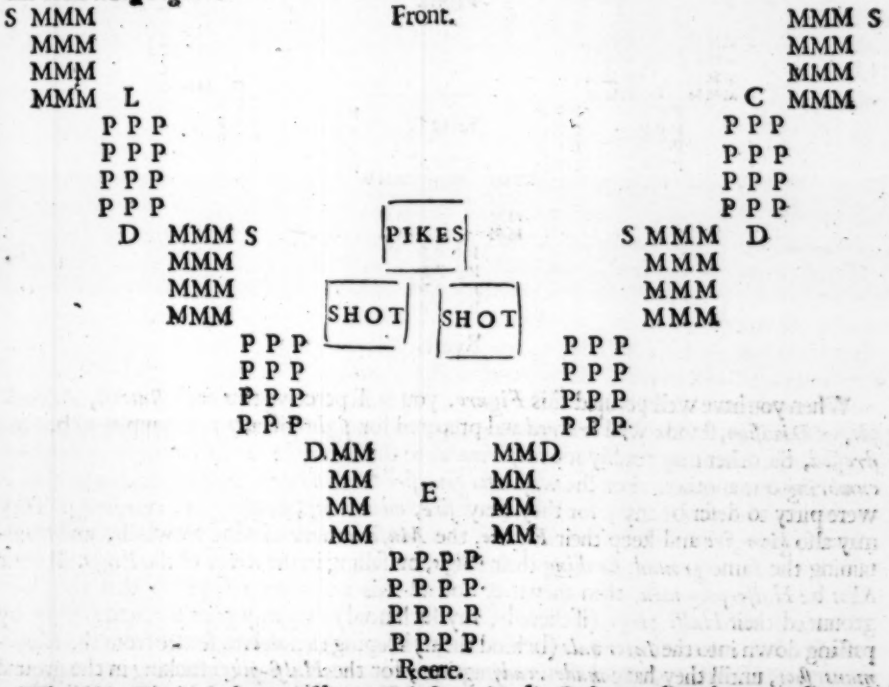
Being come to the place where you meane to ſhew the *poſtures* and *motions* of the *Muſquet*, joyned with the *Halfe-pike*. Firſt, take the *halfe-pike* into the *left-hand* with the *Muſquet*. Then

Unſhoulder your Muſquets and poiſe.
Joyne your halfe-pike to your Muſquets.
Pitch your Armes.
If the Wind be high, then
Sinke your Muſquets down to your deviſe.*
In caſe of ſhowers or raine,
Reverſe your Muſquets.
Recover your Muſquets and halfe-pikes.
Draw forth your Match.
Blow your Coale.
Cocke your / *Fit your* } Match.
Guard your pan.
Blow the aſh from your coale.
Open your pan.
Preſent upon your halfe-pike.
Give fire breſt high.
Diſmount, joyning your halfe-pike, to the out-ſide of your Muſquet.
Vncock and returne your match.
Cleere / *Prime* / *Shut* } Your Pan.
Caſt off your looſe cornes.
Blow-off your looſe cornes, and bring about your muſquets and half-pikes to your left ſides.
Sinke your Muſquets upon your half-pikes.
Charge with powder.
Draw forth / *Shorten* } Your Scowring-ſtick.
Charge with bullet, and put your ſcouring-ſticke into your Muſquet.
Ram home your charge.
With-draw / *Shorten* / *Returne* } Your Scowring-ſtick.
Bring forward your Muſquets and halfe-pikes.
Raiſe your Muſquets into your Reſts.
Ground your half-pikes for the Horſe.
Draw forth / *Cock* } Your Match.
Blow, Open, and Preſent, either in ſingle ranke, 2. 3. or 4. rankes together.
Give fire altogether.

* Which muſt call a Ketch.

Now

Now having ended the *Poſtures*, for matter of *firings*, *formes*, and *figures of Battell*; there is none in all the booke, but is *uſefull* one way or other for the *Halfe-pike*: either in the way of a *Reſt*, of a *Halfe-pike*, or of a *Palliſado*, and ſo may be uſed accordingly; but I have too long held you in diſcourſe: proceed we now to demonſtrate ſome more *forms*, the which may be indifferently uſefull, either for *Halfe-pikes* or *Reſts*, &c. Firſt, Command, *Wheele your flankes into the front*, and then *face all as before*, this brings all the *Muſquettiers* into the *Front*. Secondly, Command the foure *innermoſt-files* (as well *Muſquets* as *Pikes*) to ſtand, the reſt of the body to *face* to the *right and left*, and move untill there be *Intervals* made ſufficient to receive the *Muſquettiers* of the ſtanding part, then *ſtand, and face as before*. Thirdly, Command the *three outer-moſt Files of each flanke* to *move*, and leave *Intervals* as aforeſaid. Fourthly, Command the *middle-diviſion ſtand*, the other *diviſions move forwards*, till their *reere* be *advanced even* with the *front-angle* of the *ſtanding part*. Fiftly, Command the *two out-moſt diviſions move forwards*, placing their *Reere* as aforeſaid. Laſtly, Command the *Muſquettiers* to *face outward*, and *move cleere of their whole Pikes*, then *face as before, and ground their Halfe-pikes*, as in the following *Figure*.



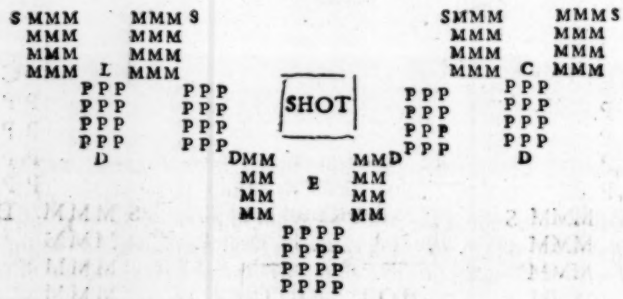
When this *Figure* is drawne, if your *Muſquettiers* be *Reſt-men*, then they may *fire*, and fall in the *Reere* of their owne *diviſions*. Secondly, they may *give fire*, and *flanke* their *Pikes*. Thirdly, they may *give fire* and place themſelves in the *Reere* of their *Pikes*, &c. If your *ſhot* be *Muſquettiers* with *Halfe-pikes*; Then if there be any feare of the *Horſe*, cauſe them to *ground* their *Halfe-pikes*, in the forme they now ſtand, the which being performed, they may *give fire* at diſcretion, either by *ſingle rankes*, by two, three, or foure *rankes together*: having *fired*, they may either *face about*, and move out of the

Horſe-

Horſe-mans ſhot, untill they are ready againe; or they may place themſelves *behind their Pikes*, according to the former directions for the *Reſt*, &c. If at any time the *Horſe* chance to find the *Muſquettier* unprovided, that is, take him in the time hee is *charging*, before hee is *ready*, then *three or* * *foure of the former Ranks of ſhot may couch with their Halfe-pikes, (the one end againſt the ground, the other breſt-high) holding it Palliſado-wiſe in the left-hand, their Swords drawn in the right*; in this manner keeping-off the *Horſe*. The *Reer-halfe-files of Muſquettiers*, in the mean time having *made ready*, may ſecurely *poure-out their ſhot upon the Horſe*, either by *ſingle Ranke*, or by *two Ranks* together; which the *Horſe* are not able long to endure. Having *given fire* ſo often as you pleaſe on this *Figure*, Command the *fore-moſt diviſion of Muſquettiers on each Wing, to face-about and move, untill they range-even with the next diviſions of Muſquets, then ſtand, and face as before*. Next, Command the *two fore-moſt diviſions of Pikes face-about, and move, untill their Front range-even with the Reer-angles of the two Front-diviſions of Muſquettiers*, then *face as before*, and it produceth this following *Figure*.

* *Foure Ranks of Halfe-pikes being in this manner charged, are ſtronger then ſix Ranks of whole pikes charged over-hand.*

Front.



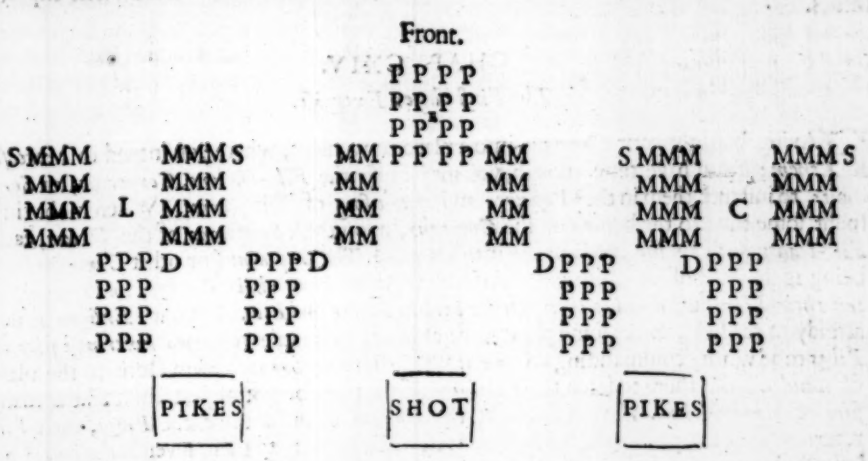
Reere.

When you have well peruſed this *Figure*, you will perceive that each *Battell*, *Manniple*, or *Diviſion*, ſtands well *ordered* and prepared for *fight*; if any *part* happen to bee *diſtreſſed*, the other may readily move *forwards* to their *reliefe*; or they *retreit* without *incumbring* one another. For the wayes to *give fire* on this *form*, there are ſo many, that it were pitty to deſcribe any; for they may *fire, advancing, ſtanding*, or *retreiting*. They may alſo *give fire* and keep their *Figure*, the *Muſquettiers* moving forwards, and maintaining the ſame *ground, flanking* their *Pikes*, or falling in the *Reere* of the *Pikes*. If your *Shot* be *Halfe-pike-men*, then they may doe all this and more; for after that they have grounded their *Halfe-pikes*, (if there be any ſuch need) they may *give fire*, and *retreit*, by paſſing down into the *Intervals* (behind them) keeping themſelves ſecure from the *Horſe-mans ſhot*, untill they have *made ready* againe; for the *Halfe-pikes* ſticking in the ground (*Palliſado-wiſe*) *Rank* after *Ranke*, the *Intervals* are ſafely enough *block't-up*. They may alſo, having *poured-on their ſhot*, fall behind their own *Diviſions* of *Pikes*: This being done, and the *Muſquettiers made ready* again, then they may *give fire* by * *Extraduction*, the *Pikes porting* over them, &c. Let not the *eaſineſſe* of the making, nor the *aptneſſe* of varying from one *form* into another, any way diſparage the work; for thoſe *Figures* that are beſt for *ſervice*, and *ordred* with moſt *facility*, are ever to be preferred. With ſome little alteration, proceed wee to a third *Figure*: For the making whereof, Command the

* *Of Extraduction, look back into Chap. 80.*

two

two *Reer-divisions* of *Musquettiers* to *move forwards, and range even-a-breſt with the other divisions of Musquettiers.* Secondly, Command the *Reer-division (or Battell) of Pikes to move forwards, untill the Reere range-even with the Musquettiers that moved laſt before them.* The *Figure* followeth.



Concerning *Firings*, what hath been ſaid of the *former Figures*, may in like manner be *performed* on this: therefore, not to ſpend more time about it, wee will come to the *Reducement*. And to that purpoſe, firſt command the *Front-diviſion of Pikes face-about, and move even with the other diviſions of Pikes*, then *ſtand, and face as before*. Secondly, command all the *Diviſions (as well Muſquettiers as Pikes) to face to the right and left inward, and to cloſe together into one Body*. This done, next command them *wheele their Reere into the midſt*, (or *Flanks into the Reere.*) Laſtly, all being *faced* to the *proper-Front*, they are *reduced* as at firſt. I might have further inlarged my ſelfe upon this ſubject of *Firings, and Figures of Battell*; and have ſhewed variety enough of *formes*, either *Regimentall*, or for *private* and *ſingle Companies*; as *Trine-Battels, Round-Battels*, the *Croſſe* and *Round* in one, the *Sollid-Square impaled*, with infinite others: But I have advanced farther already, then I at firſt intended; though, well I hope, no further then will be freely, and lovingly accepted: Which if it be, I ſhall conceive my ſelfe to have received a *gratefull*, and moſt *ample ſatisfaction*. The hope whereof doth ſomewhat incourage me to proceed a little further: And as I have already ſhewed divers and ſeverall *Motions*; with a large addition of *Formes, and Figures of Battell*; yea, and in all (or the moſt part of them) I have not onely given the words of *Command* and *Direction*, to produce them from the ordinary *Square*; but alſo together with the demonſtration of the *Figure*, and direction for the *Firing*, I have in like manner given them proper Directions for their *Reducements* again: So now, for the ſatisfaction of ſome of the quainter ſort of *Souldiers*, give me leave to adde one *Figure* unto another, untill that by *Firings I reduce Firings*. For the performance whereof, that I may obſerve ſome *method*, I will *digeſt* them into the way of *exerciſe*, &c. *The reducement.*

Nevertheleſſe, before I come to that, give me leave in one word to ſatisfie many, whoſe importunity would have preſt me to have writ ſomething for the exerciſe of the *Cavalry*. For my own part, I ſhould think it a great deal of labour ſpent to little purpoſe therein; ſeeing

ing ſuch Gentlemen that are deſirous of information that way, may buy that excellent Book intituled *Military Inſtructions for the Cavalry*, ſet forth by that worthy, and well-knowing Gentleman, Captaine *John Cruſo* of *Norwich*. Wherein the meaneſt *Cavalier* may gaine knowledge, and the beſt may review, and ſuper-viſe, the *Idea* of his owne experiments.

CHAP. CXIV.

The Firſt dayes Exerciſe.

[a] *It is very neceſſary, ſtill ſo often as time will permit, to inſtruct the Souldiers in the poſtures and the well handling of their Armes.*

HAving brought your *Company* into a place convenient, where you intend to *exerciſe them*; if you have time enough, you may cauſe the *File-leaders*, *Corporals*, or *Serjeants*, to inſtruct them in the [a] *Poſtures* and *true uſing* of their *Armes*. Wherein having ſpent ſome time to the benefit of the *Company*, upon the [b] *Summons* of the *Drum*, each *File-leader* with his *file*, is to *martch* into his *place*. The *Captaine* (or other *Commander*) being at the head of his *Company*, *commands* them to *even their Rankes*, *and to ſtraighten their Files*, and *ſtand to their* [c] *Order both in Ranke and File*. If your [d] *Enſigne* be not already in the field, but in ſome place neere at hand, then cauſe your *two innermoſt files* of *Pikes* to advance; commanding a *Serjeant* with a *Drum*, to *troope* them along to the place of *Rendezvouz*, there to fetch their *Colours*. If the place be not nigh at hand, take as many *files* of *Muſquettiers*. Having brought the *Enſigne* to the head of the *Pikes*, each *File* returnes into his place; the *Officers* likewiſe withdrawing to their ſeverall *ſtations*. [e] Silence being commanded, the *Captaine*, (or other *Commander*) begins firſt to inſtruct the *Souldiers* in the *ſeverall* [f] *diſtances*, betwixt *Ranke* and *File*, with the wayes to *open* and *cloſe* to them. And if he thinke fit, to inſtruct them in the ſeverall *uſes* of each *diſtance*.

[b] *Each File-leader to lead up his File upon the firſt Summons of the Drum.*

[c] *Ever to obſerve to be even in Ranke, and ſtrait in File, and ſtand at the true diſtance.*

Next after *diſtance*, they are to be inſtructed in the [g] *Facings*, then in the *Doublings*; next in the *Counter-martches*, and laſtly, in *wheelings*. In each of which they are to be inſtructed, according to the opportunity of the *time* and *place*, but eſpecially the capacity of the *Souldier* is to be obſerved. Wherein, the *Captaine* may doe very well, in each of the *motions* to lay downe ſome ſpeciall *rules* and *obſervations*; by which the *Souldier* may the better underſtand what he is to doe, and how (the beſt way) to performe it.

[d] *Fetching the Enſigne to the head of the Company.*

After the *motions* ended, let them *prepare* for *skirmiſh*. And firſt you may cauſe them to *give fire* with *forlorne files*, *martching forth* twenty paces (or there-abouts) before the *Front*. Having all *fired over* that way, they may *give fire* once over, by *advancing two Rankes together*, ten paces before the *Front*. Then let them *give fire*, *even* with the *Front*, and then with the *halfe-files*: the *Pikes porting*, or *charging* according to diſcretion. The *Pikes* being *advanced*, and the *Muſquettiers martched-up even* with their *Front*, you may either [h] *face-about*, *wheel-about*, or *Counter-martch*, and ſo *give fire* in the *Reere*; your *Pikes* then being *ſhouldered*. After your *Muſquettiers* have *fired over* in the *Reere*, you may (if you pleaſe) [i] *wheele* your *flankes* into the *Front*, and ſo *charge Pikes* to the *Reer*. Which done, *wheele* your *front* into the *midſt*, paſſe into your place, and *face* them to you. Then (if you will) you may paſſe your *Muſquettiers* of the *left-flanke*, through betweene the *Rankes* of *Pikes*, and place them next to the *right-flanke* of *Pikes*, opening the *right-flanke* of *Muſquettiers* to give them way. Then let the [k] *Pikes ſhoulder*, and *Muſquettiers*

[e] *Souldiers ought to be very ſilent.*

[f] *Firſt the Souldiers ought to have their due diſtance given them, with directions how moſt properly to perform.*

[g] Facings, Doublings, Counter-martches, *and* Wheelings, *wherein the Souldier ought treatably to be inſtructed, the Commander always obſerving, what his Souldiers are be hath to deale withall, and to give his directions accordingly. Never ſtriving to put more into the bottle then it can conveniently hold. Obſerve to martch between each firing, and upon each figure as may be convenient.* [h] Face-about, *or* wheel-about; *for to* counter-martch *if any enemy be neere, is very dangerous.* [i] *Wheele your flankes into the front, if your Souldiers have time enough, or otherwiſe face to the Reere, and charge Pikes.* [k] *When the Pikes ſhoulder, the Muſquettiers muſt obſerve to ranke even with them.*

give

give fire to the *right* upon a *martch*, their *leaders* leading them up between the *Pikes* and their own *diviſions* of *Muſquettiers*. Having *fired* once over in this way, let them continue their *firing* to the *right*, each *leader* leading up his *file* on the *out-ſide* of the *left-flanke* of *Pikes*. Then let the[l] *Pikes advance*, even whileſt the laſt *File* is *giving* of *fire*: and ſo ſoone as the *Pikes* are cleere of the *Muſquettiers*, let them *face all* to the *right*, and *charge*. Having *advanced* your *Pikes*, and *faced* your *body* againe to the *left*, you may then *wheel* your *battell about* to the *right*, and then *facing* the *whole body* to the *left*, the *Muſquettiers* will be all in *Front*. Then let your *Muſquettiers give fire*, and *wheele all off* to the *right*, the *Officers* to that end making an [m] *Intervall* for the *left-flanke*, or elſe let them *wheel-off* by *diviſion*, placing themſelves in the *Reer* of their own *diviſions* of *Musquettiers*. Having *given fire* once (or oftner) *over* that way, let them *give fire* againe, and *wheel-off by diviſion*, *ranking even* with their *Pikes*. That being done, cauſe the *Pikes* to *charge*, the *Muſquettiers giving fire once over*, on that *figure*. The *Pikes* being *advanced*, *face* the whole *body* to the *right*, and cauſe the *Muſquettiers* to *ſtand*, and the *Pikes* to *open* to the *right* and *left* and ſo to make the [n] *hollow Square*. Then you may (if you pleaſe) *command* the *Enſigne* to *diſplay his Colours* in the *midſt* of the *hollow*, in ſigne of *triumph*, the *body* either *ſtanding* or *martching*. After which, command the *Pikes* to *cloſe their diviſions*: Which being performed, command the *Reer-diviſion* of *Muſquettiers*, to double their *Front* of *Pikes* by *diviſion*, and then they will ſtand in forme of [o] Captain *Wallers triple firing*: Let them *give fire* upon that *figure*, and *fall-off* again, according to the directions upon that *figure*. Which being performed, and the *Pikes charged*, and *re-advanced*, the *body* will be abſolutely *reduced* as at the firſt it was before you began your *firings*. Theſe *firings* may (with the *motions*) be ſufficient for the *firſt dayes Exerciſe*. Wherfore, for this time, we will *lodge our Colours*, untill by the *Summons* of the *Drum*, we are *called forth* to the *ſecond dayes practiſe*.

[l] Upon this firing, advance *Pikes* when there is but one file of *Muſquettiers* to give fire, and cloſe forwards to the diſtance of order.

[m] Theſe kind of *Intervals* ought to containe ſixe foot in diſtance, upon ſome other occaſions, 12. foote is neceſſary.

[n] The hollow ſquare, with Muſquetts in front and reere, *Pikes* on the flankes.

[o] Captain *Wallers* firing, as in ch. 93.

CHAP. CXV.

The ſecond Dayes exerciſe.

HAving brought your *Souldiers* the ſecond time into the *field*, the body being drawn up into the ordinary ſquare, and every *Officer* vigilant in his place: the *Captaine* commandeth[a] *ſilence*, with ſome other generall termes of *obſervation*, both for the *leaders* and *right-hand-men*. Having thus commanded them (as before) to *even their*[b] *rankes*, and *ſtraighten* their *files*, he proceeds to ſhew (as formerly) the *diſtances*, the *facings*, the *doublings*, the *Counter-martches*, and the *Wheelings*: therewithall inſtructing them either in *all*, or ſo many of them as the time will permit, and he thinks convenient. Ever (by the way) obſerving that in the Proverbe, *A thing once well done, is twice done*. That Commander, that *exerciſeth* his *Souldiers* with [c] good *language*, and with *ſollid reaſons*, ſhall make them better *proficients* then he that ſhall uſe rigid termes, and rough hands. After the *Poſtures*, *Diſtances*, and ſeverall *motions*; that which next followes for this dayes *Exerciſe*, are *firings* and *figures* of *Battell*. So ſoone, therefore, as the *Drum* begins to *beat a preparative*, the *Muſquettiers* are to begin to[d] *make ready*.

And firſt, you may cauſe them to *give fire* on the [e] *Horn-Battell*, ſtill *martching-up* into their *leaders ground*, by that meanes preſerving their *Figure*.

Secondly, let the *Muſquettiers cloſe* their *diviſions* before their *Pikes*, and then *give fire* upon the [f] *demy-Hearſe-Battell*: *falling-off* preſently, either all to the *right*, (the one halfe paſſing downe an *Intervall*) or to the *right* and *left* by *diviſion*; and placing themſelves in the *Reere* of their owne *diviſions* of *Muſquettiers*.

[a] *Silence.*

[b] *Upon all motions be ſure that the Souldiers ſtand even in rank and file.*

[c] *Good words more available then blows, or ill language.*

[d] *The Muſquetiers make ready to give fire.*

[e] *Horn Battell as in chap. 75.*

[f] *Demy-Herſe, as in ch. 76. Between each firing cauſe your body to martch either in form of Battalia, extended in length: or upon any other figure, ſo that it may conveniently be done without diſorder.*

The third time of their *firing*, let them *wheele-off* by *diviſion*, and *flanke* their *Pikes*; and when they have *fired over* that way, let the *Pikes charge*.

For the fourth *firing*, let them *give fire even* with the *Front* of *Pikes*, *wheeling-off* to the *right* and *left*, and placing themſelves in the *Reere* of their owne *diviſions*.

Then let them *fire even* with the *halfe-files*, *wheeling-off* by *diviſion*, and placing themſelves in the *Reere* of the *Pikes*. The *Pikes* (you are to underſtand) ought to *charge* all the time of the laſt *Firing*; who being *advanced*, *wheele* your *Battell* about to the *right* or *left*.

A firing in the Reere.

Then your *Muſquettiers* being in the *Reere* of your *Pikes*, let your *ſixth Firing* be to the *Reere*: the *Muſquettiers wheeling-off* by *diviſion*, and placing themſelves before the *Front* of their owne *diviſions* of *Muſquettiers*, next behind the *Reere* of *Pikes*. Having *fired once over* that way, let them *give fire* over again, and *flank their Pikes*: which being in like manner performed, command them to *wheele* their *Flanks* into the *Front*, and then *face* to the *Reer*, and *charge Pikes* at the *in-ſide* of the *right-foot*, with their *Swords drawn* in their *right-hands*.

* *In ſtead of giving fire over their Pike-men, they may give fire by Extraduction, as in* Chap. 80.

Let the *ſeventh Firing* be *diſcharged* over their Pike-men*, *wheeling* either all *off* to the *right*, through *Intervals*; or elſe by *diviſion*, and placing themſelves in the *Reere* of their *owne files*. Otherwiſe (for want of roome) the *firſt-rank* of *Muſquettiers* having *given fire*, let them *kneele*, or *crowch* low upon the ground, and *make-ready* again; the *ſecond-rank* in like manner *firing*, and *kneeling*: and ſo for the reſt. Having all *fired once over* in that manner, let the *Pikes advance*, and put up their *Swords*: the *Muſquettiers*, in like manner, are to *riſe*, then to *even* their *Ranks*, and *ſtraighten* their *Files*.

For the *eighth Firing*, you may *face* the *Body* to the *Reere*, (or if you will continue your *Firing*, the ſame way) then *wheele* your *Battell about*, and having *opened* your *Intervals*, your *forme* will be the [a] *Broad-fronted Phalange*, or *Broad-fronted Battell*. Let theſe *give fire*, the firſt time *falling* (or *wheeling*) all *off* to the *right*, and placing themſelves in the *Front* of the *Pikes*, and *Reere* of their *own diviſions* of *Muſquettiers*. The ſecond time of *Firing*, let them *wheele* all *off* to the *right*, (as before) and place themſelves in the *Reere* of the *Pikes*, which follow next after their *own diviſions*. In the *interim* of the *laſt two Ranks firing*, cauſe your *Pikes* to *port*; but when the *Muſquettiers* are *cleared away*, the *Pikes* may *charge*.

[a] *This Figure is moſt commonly called the Broad fronted Battell But muſt properly the Long-fronted Battell; for that the length is the extenſion betweene flank and flank, this is in* Ch 80.

When the *Pikes* are *advanced*, and that they have *cloſed* their *diviſions*, for the *ninth Firing*, *face* them to one of the *Flanks*, and *wheele* them into a *Semi-circle* or [b] *Convex halfe-moon*; where the *Muſquettiers* being *outer-moſt*, *give fire* upon that *Figure*: the firſt time falling behind the *Muſquettiers* of their *owne diviſions*; the ſecond time of *firing*, cauſe them to place themſelves behind their *Pikes*. For further *directions*, look back upon *Chap.* 79. which diſcourſeth of the *Convex halfe-moon*. The *Pikes* may alſo *charge*, and the *Muſquettiers give fire* over again, according to diſcretion. The *Pikes* being *readvanced*, *face* the whole *Body* to one of the *Flanks*, and *martch* them out *Herſe-wiſe*: Then command them to *double their Ranks to the Right*: which being done, command that *Flank* which are *Muſquettiers* to *double* the *contrary Flank* by *diviſion*: which being performed, all the *Muſquettiers* will be in *Front* and *Reere*: Then cauſe the *Reer-diviſion* of *Muſquettiers* to *double* the *Front* of *Pikes* by *diviſion*. Then let them *give fire* on that *Figure*, as you may ſee further directions in *Chap.* 93. The *Pikes* having *charged*, and *advanced* again.

[b] *Convex halfe-moon, as in* Ch. 79

For the *eleventh Firing*, firſt *face* the whole *Body* to the *right*; then cauſe the *halfe-files* that then are, to *face* to the *Reere*; and ſo let the *Muſquettiers give fire* to the *Front* and *Reere*, *wheeling-off* by *diviſion*, and *flanking* their *Pikes*. The *Pikes* may alſo *charge* to

to the *Front* and *Reere*; which being performed, *face* them all again to their [c] *Leader*.

For the *twelfth Firing*, make the *Plinthyum* or *four-fronted Battell*: the *Angles* whereof being filled with *Muſquettiers*. For further ſatisfaction, look upon *Chap.* 102, which gives *direction* both for the *motion* and *reducing* thereof. Next, *face* the whole *Body* to that part which was the *Front* before the *laſt Firing* began. Then, if you would have your *Enſigne* to *diſplay* in an *hollow Square*, cauſe your *Muſquettiers* to *ſtand*, and *half-files* of *Pikes* to *face* to the *Reere*; and ſo both *diviſions* of *Pikes* to *march*, untill their *laſt ranks* are *even* with the *Front* and *Reere* of *Muſquettiers*: Then *face* all to their *Leader*. If you pleaſe, the *Muſquettiers* may *give fire* upon this *hollow Square*, as they *march*, to both *Flanks*; ſtill *leading-up* their *files* on the *in-ſide* of their *own diviſions*: and this will make the *thirteenth Firing*.

[c] *The Leader is then conceived to ſtand on that part which was the right-flank, the which was the front of the eleventh Firing.*

But, by this time, our *powder* being *ſpent*, our *men weary*, and *night* approaching, wee will come to the *Reducement*. Wherefore, firſt cauſe the *Pikes* to *cloſe* their *diviſions*, and the *Muſquettiers* to *march-up even* with their *Front* of *Pikes*. Then let the whole *Body wheele* their *Flanks* into the *Reere*; which being done, all the *Muſquettiers* will be in the *Reere*. Then (if you will) *face* to the *Reere*, and *give fire*, cauſing your *Muſquettiers* to *wheel-off* by *diviſion*, and to *flank* their *Pikes*. Or elſe, cauſe your *Muſquettiers* to *open* to the *right* and *left*, and *double* your *Front* of *Pikes* by *diviſion*. Which being done, *double files* to the *left*, and they will be all *reduced* as at firſt. Wherefore, we will now *lodge our Colours*, and conclude our *ſecond dayes exerciſe*.

CHAP. CXVI.

The third dayes Exerciſe.

HAving the third time (as formerly) brought your *Souldiers* into the *Field*, it is very neceſſary, in the firſt place, that they be taught the *Poſtures* of each *Armes*; either by the *File-leaders*, or ſome other of the *Officers*. Wherein, they muſt be carefull to inſtruct them in the *Firings*, both to *Front*, *Reere*, and *Flanks*: As to *give fire* to the *Front*, *advancing*; to *give fire* to the *Front*, upon a *ſtand*: to *give fire* to the *Reere*, upon a *Martch*: to *fire* to *either Flanke*, *martching* or *ſtanding*. As alſo to inſtruct them in *Diſtances*, *Facings*, *Doublings*, *Counter-martches*, and *Wheelings*; that ſo they may be the more *apt* and *capable*, when they ſhall be brought into a *Body*. Having ſpent ſome time in the *exerciſing* of *Files*, let the *Drum ſummon* each *File-leader* to his place; the *Enſigne* be fetcht to the *head* of the *Company*; the *Captain* command *ſilence*; and the *Souldiers* tender *obedience*. The *Ranks* being *evened*, and the *Files ſtraightened*, the *Captaine* (according to his accuſtomed manner) begins to inſtruct them in the *Diſtances* and *Motions*: And after the performance of ſo many of them as hee ſhall think fit for the preſent *Exerciſe*, hee commands the *Drummes* to *beat*, and *Muſquettiers* to *make ready*; and ſo cauſeth them to *give fire* * three or foure ſeverall wayes, after the ordinary manner of *firing* in the *Front*.

Whoſoever it be that teacheth the Poſtures of the Muſquet, ought to be very diligent in his inſtruction, concerning the well-manneging of their Armes; that they may not only fire to the Front, Reere, and Flanke; but that they obſerve order in their motion, which will better their execution. The File-leader, if hee have time, may inſtruct his File in the Diſtances, and the ſeverall Motions. * *By drawing forth of looſe Files, or otherwiſe.*

Then cauſe your *Muſquettiers* of the *left-flank*, to *give fire* to the *Reere*; and the *Muſquettiers* of the *right-flanke*, to *give fire* to the *right*. This *Firing* is to be performed upon a *Martch*, the *Pikes ſhouldered*.

For the *ſecond Firing*, let them *give fire* to both *Flanks*. The [a] *gathering Firing*.

For the *third*, let them *fire* to both *Flanks*, *drawing them up* between the *diviſions* of *Muſquettiers* and *Pikes*.

[a] *The gathering Firing, as in* Chap. 83.

For the *fourth Firing*, let them *give fire* again to both *Flanks*, *leading them up*, after they have *fired*, between the [b] *midſt* of *Pikes*. When the *laſt Files* are *firing*, *advance* your *Pikes*, and *cloſe* your *Ranks* forwards to their *Order*. Then, *face* to the *right* and *left*, and *charge Pikes*. Your *Pikes* being *advanced*, and *faced* again to the *Front-proper*, all your *Muſquettiers* will be in the *midſt*.

[b] *Drawing-up the Muſquettiers between the Pikes, as in* Chap. 87.

Then open them ſome *Intervals*, and let the *fifth Firing* be to the *Front*, *wheeling* all *off* to the [c] *right*, and placing themſelves in the *Reere* of their owne *diviſions*. Then cauſe the *Pikes* to *charge*, and when your *Pikes* are *advanced* again, let your *halfe-files face-about* to the *right*.

[c] *As in* Ch. 101.

And ſo the *ſixth Firing* may be to the *Front* and *Reer*; the *Muſquettiers* of the *Front-diviſion*, *wheeling-off* to the *right*; thoſe of the *Reer-diviſion*, *wheeling-off* to the *left*; either of them placing themſelves in the *Reere* of their owne *diviſions*. The *Muſquettiers* having *fired once* or *twice over*, *wheele* your *Flanks* into the *Front* and *Reere*, and cauſe your *Pikes* to *charge* to the *Front* and *Reere*. The *Pikes* being again *advanced*, and all *faced* to their former *Front*, *wheele Front* and *Reere* into both *Flanks*, and *face* as before.

For the *ſeventh Firing*, make the [d] *Plinthyum*, or *Foure-fronted Battell*; the *Angles* being filled with *Pikes*: and let them *give fire*, and *charge* their *Pikes*, according to *directions* for that *Figure*. As likewiſe, the *Firing* being ended, *reduce* the men back into their places, as they were before this *Firing* began. Then, *wheel-off* your *Front* by *diviſion*; which brings your *Muſquettiers* upon the *Flanks*, but doth not *reduce* your men juſtly into their places, if your *number* be any thing great.

[d] *The Plinthyum is in* Chap. 102.

From thence, make them a perfect [e] *Croſſe-Battell*, and let your *Muſquettiers give fire*, *wheeling* all *off* to the *right*, placing themſelves in the *Reere* of their owne *diviſions* of *Muſquettiers*.

[e] *The Croſſe-Battell, as in* Chap. 99

For the *ninth Firing*, let them *give fire* as before; but place themſelves in the *Reere* of their *Pikes*; the *Pikes* moving forwards into their *ground*, and *charging*. Having *advanced* your *Pikes*, command your *Flank-diviſions* to *face-about* to the *right*, and to *cloſe* their *diviſions*. Then command the *Front* and *Reere-diviſions* to *wheele* their *Flanks* into the *Reere*: which being done, *face* them to the *Front-proper*, (that is) after the *right File-leaders*.

For the *tenth Firing*, (your *Muſquettiers* being ſtill in the *midſt*) let them *give fire* by [f] *Introduction* twice over, (ſtill beginning with the *ſecond-rank*) the *Pikes* moving ſoftly forward.

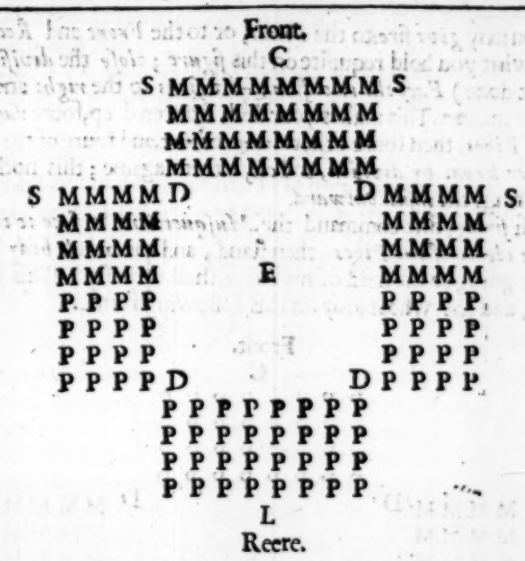
[f] *Introduction, as in* Chap. 77.

For the *eleventh Firing*, let them *give fire* by *Introduction*, (beginning with the *Bringers-up*.) The *Pikes* may *charge* at diſcretion: Then let the *Muſquettiers ſtand*, and the *Pikes martch forwards*, *cloſing* their *diviſions* before the *Muſquettiers*.

And ſo let the *twelfth Firing* be by way of *Extraduction*. Let the *Pikes charge*; which being performed, command the *firſt* and *laſt* foure *Ranks* to *ſtand*, and the reſt of the *Body* to *face* to the *right* and *left*; and ſo to move, untill they are cleare of the *ſtanding Ranks*. Then let the whole *Body face-about* to the *right*, and let the *Enſigne* diſplay his *Colours* in the *midſt*, the *Body* ſtanding in this following *forme*.

This Firing is demonſtrated in Chap. 80.

Front.



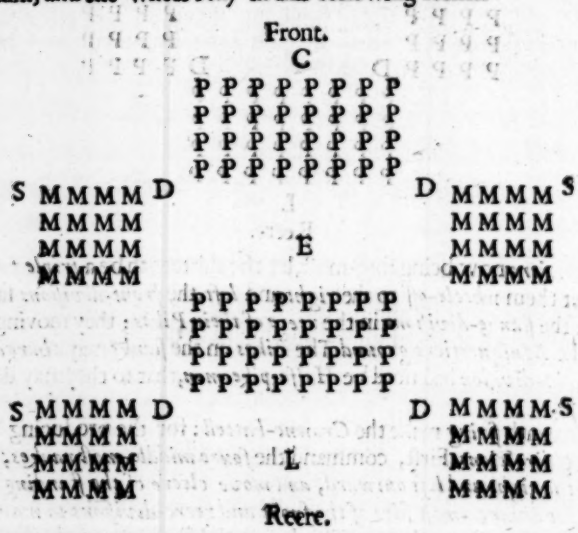
The *Muſquettiers* now being fore-moſt, let the thirteenth be a *triple firing* to the *front*, having *fired*, let them *wheele-off* to the *right* and *left*, the *front-diviſions* falling in the *reere* of themſelves: the *flanke-diviſions* in the *reere of their Pikes*; they moving forwards, and *maintaining* the *Muſquettiers ground*. The *Pikes* on the *flanks* may *charge*: the *Muſquettiers* of the *front-diviſion* had need be *Halfe-pike-men*, that ſo they may defend themſelves from the *Horſe*.

For the fourteenth *firing* make the *Crowne-battell*: for the producing whereof obſerve theſe following *directions*. Firſt, command the *foure middle-moſt rankes, of the flanke-diviſions face to the right and left outward, and move cleere of the ſtanding parts*. Secondly, command the *foure inner-moſt files of the front and reere-diviſions to move forwards untill they ſtand cleare of the ſame Armes*: This being rightly performed, this following *figure* will be produced.

In this *forme* you may *give fire* to the *Front*, or to the *Front* and *Reere* at discretion: having performed what you hold requisite on this *figure*; *close* the *divisions* back again into their *places*, (that done) *Face the two flanke-divisions* to the *right* and *left inward*, and let them *close* in like manner. This makes your *body* fourteen deep, foure *rankes* of *Musquets* and foure *rankes* of *Pikes*, then foure of her *rankes* of *shot*, and foure of the contrary *Armes*. Next, *wheele off your Front by division*, and *close* them againe; this nothing altereth the *forme*; but onely brings the *inside outward*.

Or wheele your front inward to the Reere.

For the fifteenth *firing*, first command the *Musquettiers* to *face to the right and left outward, and move cleere of the Pikes*, then stand, and the *whole body face-about to the right*, the *Captaine* going to the head of his *Pikes*, shall there find all his *proper file-leaders faced* towards him, and the whole *body* in this following forme.



Let the *Musquettiers give fire to the Reere*, and *both flanks martching*. They may *give fire* and keep their *Figure*, or they may *give fire* and *flanke* their *Pikes*: If the latter, then command the *reer-division close forwards*, and all is *reduced* as at the first. If the former then *all the divisions are to close forward*. And herewith we will conclude our *third dayes Exercise, and lodge our Colours*, untill that the bellowing *Drum* call us the fourth time into the *field*, to give an account of our proficiency. Till when, we will leave our *Souldiers* to repaire to their *quarters*, rest their *limbs*, refresh their *spirits*, and replenish their *bandiliers*.

The Reducement.

CHAP. CXVII.

The fourth dayes Exercise.

HAving the fourth time brought your *Souldiers* into the *field*, and (as formerly) caused them to be instructed in the *Postures* (both of *Musques* and *Pike*) that so they may be capable to use them both with *agility*, and with *safety*. As likewise taught them their divers wayes of *distance*, with the severall and various *motions*; not forgetting particularly to instruct them with *rules* and *pertinent reasons* to every one of them: that so they may not onely learne to doe, but like *rationall men understand* what they doe. Which being deliberately performed, and each *Officer* disposed to his severall *place*, the *ranks* being *evened*,

and

and the *files straightened*; the *Captain commands*, the *Drum beats*, and the *Musquettiers make ready* for *skirmish*, &c.

The *first Firing*, being by drawing-forth the *inner-most files* of each *flank* of *Musquettiers*, to the *right* and *left*, obliquely before the *Front*; and so to *stand* and *give fire*. Having *given fire*, let the *Bringers-up lead* them back into their *places*. And, in the meane time, let the next *inner-most files lead-forth* and *fire*, after the same manner; and so likewise the rest, untill all the *Musquettiers* have *fired once over* that way.

You may either draw forth the inner-most or outer-most at discretion.

For the *second Firing*, let them *give fire* [a] *obliquely*, and *crosse* the *Front*, both at once.

[a] *As in Chap. 99.*

For the *third*, let them *give fire obliquely*; the *Musquettiers* standing before the *Pikes*, in form of an *hollow wedge*. Upon this *Firing* the *Musquettiers fire outward*; whereas in the *other* they *fire inward*.

For the *fourth Firing*, let them *fire* upon the [b] *oblique* W. For the manner of these *Firings*, with the wayes both how to *make* them and *reduce* them, I referre you to their severall places, where I have shewn them plainly.

[b] *As in Chap. 97.*

For the *fifth Firing*, let them *give fire obliquely* on the *Fort-Battell*; that is to say, to *Front*, *Reere*, and *Flanks*. These *oblique Firings*, howsoever that some of them may at some times be usefull, yet here they are inserted but for variety of *exercise*, and no otherwise to be accounted of. In all these *oblique Firings* the *Pikes* never come to *charge*; but stand either in a *hollow* or *solid Square*, in danger of the *Enemies shot*; themselves neither being able to *offend the Enemy*, nor to *defend themselves*. And yet, if by frequent *practice* they were *inured* to the use of the *long-Bow* fastened to their *Pikes*, I make no question but that when they should become expert in the use of the [c] *Bow and Pike*, they would not onely be a *terrour* to their *Enemies*, by the continuall *showers* of *Arrowes* which they would send amongst them; but also they would be a great means to *rout* their *Battalions*, and utterly *break* their *Order*. On the contrary, if men should be put to use the *Bow and Pike*, and have not first well learned the use of the *Pike* alone, they would be so *cumbersome* to themselves, and so *troublesome* to others, that in stead of *spoyling* their *Enemies*, they would *rout themselves*. But pardon this digression, whilest I proceed to the rest of this *dayes Exercise*.

[c] *Expert Bow-men may be very serviceable.*

The *sixth Firing*, being in form of a *Roman* T, is to be made as followeth: Let the *Pikes stand*, and the *Flanks* of *Musquettiers wheele* into the *Front*: then let them *give fire*, making an *Intervall* upon each *Flank*; the *Musquettiers* of the *Right-flank wheeling-off* to the *right*, the *Musquettiers* of the *Left-flank* to the *left*, and placing themselves in the *Reere* of their owne *divisions*. When the *Musquettiers* have *fired once* or *twice over*, let the *Pikes passe through*, and *wheele* their *Front* into the *midst*; and then *facing* to the *Front*, let them *charge* their *Pikes*: and from thence having *advanced* their *Pikes*, let the *Commander passe* to the *Right-flank*, and *face* the whole *Body* to the *right*. Then *wheele* the *Battell about* to the *Left*, untill the *Body* be brought into a *round Battell*: from whence wee will begin the *seventh Firing*.

[d] *In this forme if the Musquets ground their halfe-pikes, and the Pikes open to the right and left to the utmost Angle, then the Musketiers after that they have fired may retreat to the Reer of the Pikes whilest they charge to the Flanks.*

The *Figure* being made, *face* the whole *Body* to the *Center*, and give them their *directions*, what they have to doe. When they have received their *instructions*, let them all *face-about* to the *right*, *present*, and *give fire*. The *first time* of their *firing* placing themselves in the *Reere* of their owne *Musquettiers*: The *second firing*, *counter-marching* to the *right*, and placing themselves in the *Reere* of their *Pikes*: The *Pikes* at the same time are to move forwards into the *Musquettiers ground*; where they may *charge over-hand*, and (if need be) at the *foot*; the *Musquettiers giving fire* over them, as in the *Convex halfe-moon*. The *Firing* being ended, and the *Pikes advanced*, let the *Commander march-forth* of the *round Battell*, at that part where hee shall find all his *proper File-leaders*:

[e] *A quaint Reducement for a knowing Company; but not for a large or ignorant number.*

Then let the whole *Body* be *faced* to that part, and the *File-leaders* cauſed to *march-forth even-a-breſt*, the *Muſquettiers* and *Pike-men* following their *leaders*, and *marching* untill the *Body* have attained their *orderly Square* again. But note, that all your *Muſquettiers* are in the *midſt* of the *Battell*.

The eight firing is the impaled ſollid Square.

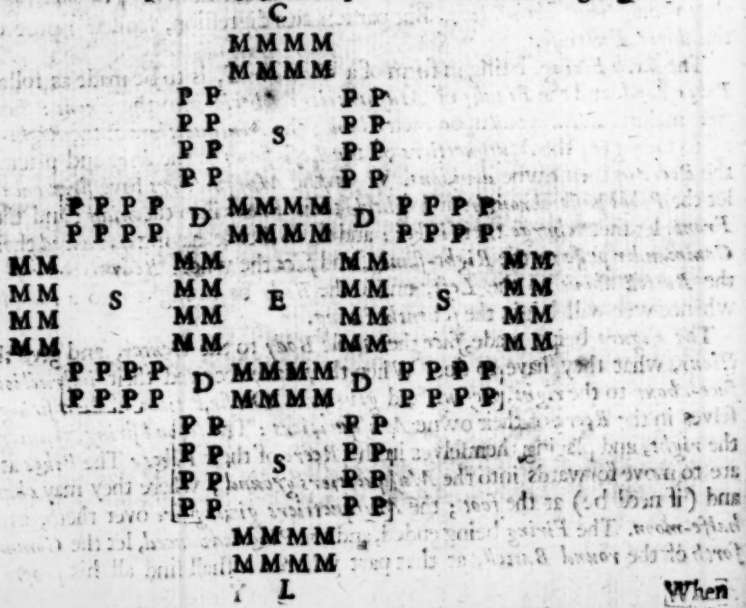
For the *eighth Firing*, make the *impaled ſollid Square*: the way to performe it is as followeth.

Your *Pikes* being now the *Flankers*, *draw-forth the moity* of the *files* of *Pike-men* from the *right-flanke*, croſſe the *Front* of the *Body*, (taking the *out-moſt files*) let halfe the *files* of *Pike-men* of the *left-flank* be *drawn croſſe* the *Reere*, following their *Bringers-up*.

Then, *face* all your *Muſquettiers* to the *Front*, *Reer*, and *Flanks*: The *Pikes* may *charge* all *over-hand*, and (if need be) at the *foot*, with their *Swords drawn*; the *Muſquettiers firing* over them. Having *fired*, *charged*, and *advanced* their *Pikes*, *draw-off* the *Pikes* again, from the *Front* and *Reere*, into their *places*.

The hollow fronted Croſſe, the Muſquets making the hollow, is demonſtrated in chap. 100.

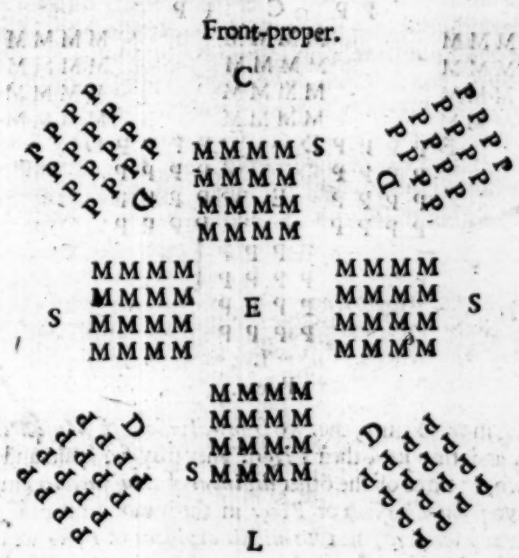
For the *ninth Firing*, (the *Muſquettiers* being ſtill in the *middle*) make the *hollow-fronted Croſſe-Battell*; the *Pike-men* making the *hollow*, upon the *Flanks* of the *Muſquettiers*. For the making whereof, *wheele* the *Front* of the *two firſt Ranks* into the *midſt*: That being done, *wheele* the *Reere* of the *two laſt Ranks* after the ſame manner; and then *face* the reſt of the *Body* to the *right* and *left*, and cauſe them to *march* untill there be a *Square hollow in the midſt* of the *Battell*. Then command them to *face* to the *Front*, *Reer*, and *Flanks*: which being in like manner performed, cauſe the *Pikes* (who are now in the *Front* of the *Muſquettiers*) to *open* to the *right* and *left*; the *laſt Rank* of *Pikes ranking-even* with the *firſt Rank* of *Muſquettiers*. The *Muſquettiers* may *give fire* upon this *Figure*, *wheeling* all *off* to the *right*, and placing themſelves in the *Reere* of their owne *diviſions* of *Muſquettiers*. If need be, the *Pikes* may *charge* to the *Angle*, whileſt the *Muſquettiers give fire* ſtraight forwards. This being done, and the *Pikes* again *advanced*, for the *tenth Figure* make the *quintipled-hollow-ſquare*, by commanding the *two firſt Ranks of each diviſion*, *move forwards cleare of the Pikes*; which produceth this following *Figure*.



When

When you would come to *firing*, cauſe the *Muſquettiers* in the *midſt* to *cloſe to the Front, Reer*, and *Flanks*; and ſo they may *give fire* accordingly. The *firſt firing* the *Muſquettiers* may make good their *ground*: the *ſecond* time of *firing-over*, they are to *rank-even* with the *Pikes*: the *third* time of *firing*, the *Pikes* move a little forward, and the *Muſquettiers* loſe ground; which brings them again into the *hollow-fronted Croſſe*: all the while the *Muſquettiers* are *giving fire*, the *Pikes* are to *port* and *charge* to the *Angles*. Having *advanced* your *Pikes*, Command them to *cloſe their diviſions before the Muſquettiers*: that done, Command all the *Pikes* to *face to the right, and move into the ſpace between the Angles of the Muſquettiers*; which produceth this following *Figure*; from whence wee will make our *eleventh Firing*.

When the Muſquettiers firſt give fire, they will ſtand in the forme of a hollow diamond: If forbear the figure, it may eaſily bee conceived.



On this *double Croſſe-Battell* you may, if you pleaſe, *give fire* to the *Front, Reere*, and *Flanks*: it is an excellent *Figure* for *Muſquettiers* with *Halfe-pikes*; for that they may move forwards and ground their *Halfe-pikes*, and then *give fire, one, two, three*, or *foure Ranks* together; *wheeling-off*, and maintaining the place where their *Half-pikes are grounded (Paliſado-wiſe:)* or they may *fire*, and *retreit* into this *Figure*, and there *make-ready* and *fire* again: the *Pikes* may *charge*, &c.

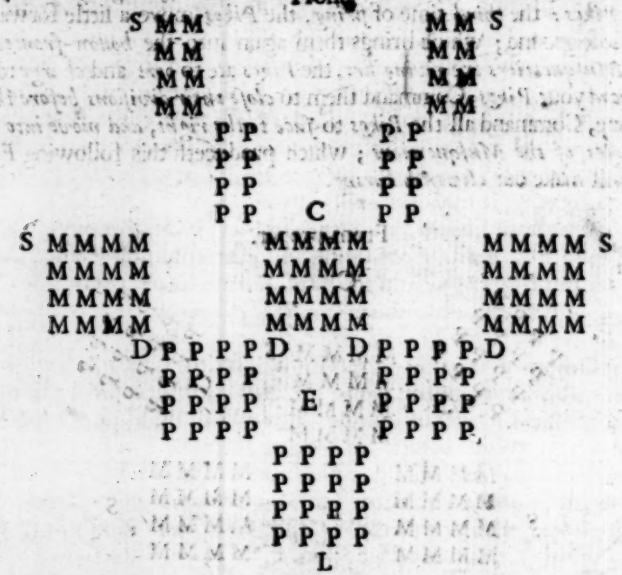
The eleventh firing.

When the *Pikes* are again *advanced*, let them move to the *left* into their places before the *Muſquettiers*, and the whole *Body face* to the *Front*.

To make the *twelfth Figure*, firſt, Command the *Muſquettiers of the Flank-diviſions to interchange ground with their Pikes, and then to move forwards, untill the Reere be advanced even with the Front-angle of their owne Pikes*. Secondly, Command the *Muſquettiers of the Front-diviſion to ſleeve-up to the right and left of their Pikes, untill the Reere be advanced even with the Front of Pikes*. Thirdly, Command the *Muſquets of the Reere to move forwards, and range-even with the Muſquettiers of the Flank-diviſions*. Fourthly, Command the *Front-diviſion (as well Muſquets as Pikes) to open to the right and left, leaving an Intervall for the Muſquettiers behind them.*

And when they be opened, let the Muſquettiers move forwards as in the Figure.

them. Lastly, *close the Pikes forwards in the reere*, that their *front* may be *even with the rear* of the two other *divisions*. The *Figure* followeth.



The *Body* standing in this Figure, the two *front-divisions* of *Musquettiers* may *give fire* once or twice over, and then *flank* their *Pikes*: They may *fire* again and fall in the *reere* of their *Pikes*. One, two, or three of the other *divisions* of *Musquettiers* may *move* forwards and *give fire*, the two *front-divisions* of *Pikes* in the meane time *charging*. Having *fired* twice or thrice over at discretion, the two *middle divisions* of *Pikes* are to *move forwards*, to *port* and *charge*, the *Musquettiers* in the mean time *firing* and *losing ground*. By which meanes the *flanke-division* of *Musquettiers* will againe *flanke* their *Pikes*. Then, because we will come to *reducement*, First, command the *middle division* of *Musquettiers* (the which pertaine to the *reere*) to *move back into their places*. Secondly, command the *two front-divisions to close together*. Thirdly, command the *Musquettiers* and *Pikes* of the *flanke divisions* to *interchange ground*, and then *close their divisions*. Fourthly, command the *front* and *reer-divisions* to *wheel their Musquettiers* into the *midst*. Lastly, *wheel-off your battell by division*, after which having *closed* their *divisions*, they are perfectly *reduced* as at first. And herewith we will conclude this dayes *Exercise*, and leave our *Souldiers* to rest, untill that the *morrows Sun*, and the *thundring Drum* shall call us forth againe into the *Field*.

CHAP. CXVIII.

The fifth daies Exercise.

* *The Postures cannot bee too often practised by young Souldiers.*

HAving the fift time brought your *Souldiers* into the *Field*, it will not be amisse for to cause them to be instructed (in the first place) in the *Postures* of the *Pike* and *Musquet*. For those *Souldiers* which by often practise of their **Postures* are growne

growne *perfect*, will mannage their *Armes* with *eaſe*, *ſurety*, and *celerity*, when on the contrary, the *unpractiſed Souldier*, will be a trouble to himſelfe, a danger to his *fellowes*, and a dormant to his *Enemies*.

After the *Poſtures*, each *file* being drawn into his place; and the *Enſigne* (according to the former directions) brought to the head of the *Pikes*; the *rankes evened*, and the *files ſtraitned*, the *Captaine* having commanded *ſilence*, and delivered himſelfe in ſuch termes as the preſent occaſion doth require, (ever preferring the *induſtrious* and *painfull*, and on the contrary, blaming the *careleſſe* and the *ſlothfull*) he next proceeds to inſtruct them in their *ſeverall diſtances*; and theſe indeed are the *ground* of all *motion*: ſeeing that without *diſtance*, the *motions* cannot be *executed*. Next to the *diſtances*, they are to be inſtructed in the *motions*, evet obſerving to each *motion*, its due *diſtance*.

Diſtance is the ground of motion, becauſe no motion can properly bee performed without its due diſtance.

Next after *poſtures*, *diſtance*, and *motions*; let the reſt of the *dayes Exerciſe* be ſpent in *firings* and *figures* of *Battell*. Each *Officer* having now received his ſeverall *Charge*; The *Captaine commands*, the *Drums beat*, and the *Muſquettiers make ready*.

Let the *firſt firing* be performed by *leading-forth* the *outermoſt file* of each *flanke*, twenty or thirty *paces* before the *front*. When being come to the place of *firing*, (where they may ſurely do *execution*) let them *ranke foure*. That is to ſay, the three men next behind the *right-hand file-leader*, ſhall *ranke* inward to the *left*, even with their *file-leaders*: the three next *men* after the *left-hand file-leader ranking* inwards to the *right*, even *a-breſt* with the *leader* of their *file*, the reſidue of each *file*, keeping themſelves in *file*, and cloſing forwards to the *diſtance* of *order*, juſt after their *file-leaders*. The firſt foure of each *file*, having *preſented*, *fired*, and *wheeled away*; the *laſt foure men* (being the *Reer-halfe files*) in the *interim* of their *wheeling-off*, *ranke* to the *right* and *left* inward: *preſenting*, *firing*, and *wheeling-off*, (as aforeſaid) and placing themſelves in the *reere* of the former part of their *files*, which *wheeled-away* before them. The ſecond *files* are then to *lead forth* and to doe the like, and ſo ſucceſſively, the *reſt*, untill they have all *fired over*, this way.

For further direction to this firing turne to cap. 73.

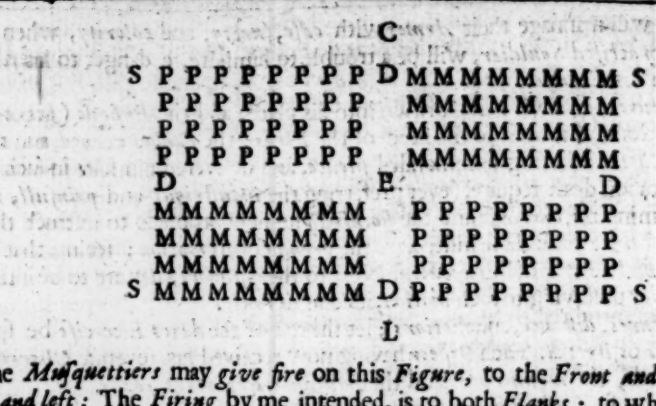
For the ſecond *Firing*, let the *outer-moſt files* lead forth to the ſame *diſtance* before the *Front*, whither being come, as to the *place* wherein to doe their *execution*, let the *Files ranke* to the *right* and *left inward*; and ſo *fire altogether*: *wheeling-off*, and placing themſelves as in the former *firings*. The reſidue of the other *files* of *Muſquettiers*, at the ſame time *marching forth*, *giving fire*, and ſtill placing themſelves *file-wiſe*, on the *innermoſt part* of their owne *diviſions* of *Muſquettiers*, and next to the *out-ſide* of *Pikes*.

As in c. 92.

For the third *firing*, ſend forth the foure *firſt rankes* about *ten paces* before the *front*, Let the two firſt *rankes preſent* together, the ſecond *ranke cloſing forwards*, and *preſenting* between the *Intervals* (or ſpaces) of the *firſt rank*, and ſo poure out their *ſhot* together. When they have *given fire*, let the *firſt rankes firſt wheele-away*, the ſecond *ranks* following them. The other *two ranks*, *cloſing*, *preſenting*, *firing*, and *wheeling-away*, as aforeſaid, falling in the *Reere* of their owne *diviſions* of *Muſquettiers*. The next foure *Rankes moving forward*, and doing the like, &c.

Let the fourth *firing* be performed to both *flankes* upon a ſtand: *facing* the whole *body* to the *right* and *left*, there *firing*, *wheeling-off* by *Diviſion*, and *flanking* their *Pikes*. Whilſt the two laſt *Ranks* are *giving fire*, let the *Pikes port*, and when the *Muſquettiers* have *fired*, and *wheeled-off*, let them *charge*.

Having *advanced their Pikes*, *face* the whole *body* to that part where you ſhall find your *file-leaders* of *Muſquettiers*; then will all your *Muſquettiers* be in *front* and *reere*. Next command your *halfe-files* that then are, to double your *front* to the *left entire*, which being done, this following *Figure* will be produced.



This is the fifth firing. Half-ranks of the right, or left-flank both intend the same thing.

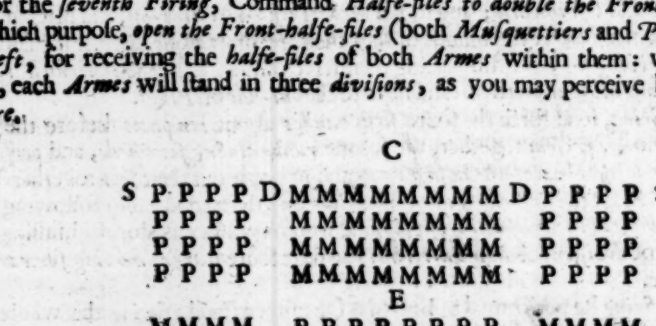
The *Musquettiers* may *give fire* on this *Figure*, to the *Front and Reere*, or to the *right and left*: The *Firing* by me intended, is to both *Flanks*; to which purpose, *face the Body to the right and left by division*. Let the *Drumme beat*, the *Musquettiers make-ready, present*, and *give fire*, all *wheeling-off* to the *left*, and placing themselves in the *Reere of their owne divisions*. The *Pikes* may also *port*, and *charge* as they see occasion. The *Musquettiers* having all *fired*, the *Pikes* again *advanced*, and the whole *Company faced* to their *former Front*, command the *halfe-ranks* of the *right* (both *Musquettiers* and *Pikes*) to *march*, and the *halfe-ranks* of the *left-flank* to follow in the *Reere*.

The sixth firing.

Having given them some time of breathing, then for the *sixth Firing* cause the *half-files* that then are (*Musquettiers* and *Pikes*) to *face to the Reere*. Which being done, let the *Musquettiers give fire to the Front and Reere*, upon a stand, *wheeling-off* by *division*, and placing themselves in the *Reere* of their *Pikes*; they *moving forwards*, and maintaining the *Musquettiers ground*. The *Pikes* are then to *charge*, when they are cleared of their *Musquettiers*. Which being done, and they again *advanced*, *face them all to their former Front*.

The seventh firing.

For the *seventh Firing*, Command *Halfe-files to double the Front inward, entire*. To which purpose, *open the Front-halfe-files* (both *Musquettiers* and *Pikes*) *to the right and left*, for receiving the *halfe-files* of both *Armes* within them: which being executed, each *Armes* will stand in three *divisions*, as you may perceive by this following *Figure*.



When you intend to *give fire*, Command the *halfe-files to face-about*, and perform the *firing* to the *front and Reere*, *wheeling-off* by *division*, and placing themselves in the *Reere* of

of their own diviſions. The *Pikes* may *charge* at diſcretion. Having *advanced* your *Pikes*, and *faced the whole Body* to you, let your *eighth Firing* be upon the *Checker-Battell* (of eight *diviſions.*) To make the which, Command *Left-flanke double the right-flanke by diviſion.* This Command being executed, the *Checker-Battell* is finiſhed; you may *give fire* upon it to the *Front*, *Reere*, *and Flanks*, either *ſtanding*, or *martching*: the *Muſquettiers* ſtill placing themſelves either *after*, or *within their owne diviſions of like Arms.* The *Pikes* may alſo *charge*, as you ſee occaſion, &c. Many *formes* might be made from this *Checker-Figure*, the which for the preſent I omit: Therefore, Command the *firſt and laſt foure Ranks to face to the left, and martch*; being moved cleare of the *ſtanding part of the Body*, let them *cloſe their diviſion*, and *face to the Front again*: this brings them into *ſix diviſions.* Next, Command the *eight inner-moſt files to face-about*, and *martch into their places.* The *halfe-files* being *faced-about*, and *martched cleare-off*, then are the *Front-halfe-files* to *cloſe their diviſions*: this being performed, and all rightly *faced*, the *Muſquettiers* will be in the *midſt*, and the *Pikes* on the *Front* and *Reere.* Let your *ninth Firing* be to the *Reere* and *Right-flank* together. And to that purpoſe, Firſt, Command *halfe-files double your Front to the right entire*: that being done, let the *halfe-files that doubled, wheele their Battell to the right*; and then being *faced to the Front*, they will ſtand as in this following *Figure.*

theſe 8. inmoſt files, are the halfe-files of Muſquets and Pikes which doubled the front inward intire.

As the *Body* now ſtands *faced*, you may conceive a *Firing* to the *Reere* and *Right-flank*, *martching*; the which may be performed theſe two ſeverall wayes: * The *Muſquettiers* of the *Reere* having *fired*, may *wheele-off* to the *right*, and place themſelves next after the *Pikes*, in the *Front* of their owne *diviſions.* The *Muſquettiers* of the *Right-flank* having at the ſame inſtant *fired*, may place themſelves in the *in-ſide* of their *owne diviſions next the Pikes.* A ſecond way to place themſelves, after that they have *given fire*, is this; The *Muſquettiers* which *fire* in the *Reere*, are to place themſelves before the *Front of Pikes*; the *Muſquettiers* of the *Flank* place themſelves on the *in-ſide* of the *Right-flank of Pikes.* The whole *Body* may ſtand, and *Pikes charge to the Reere and Right-flank.* If on this *Figure* you would *give fire* ſtanding, then *face the right-flank to the right, and left-flank to the Reere*; and open an *Intervall* in the *middle* of the *left-ſtank* for the *Muſquettiers* to move thorow. The firſt time of their *firing* the *Muſquettiers may place themſelves in the Reere of their owne diviſion of ſhot.* The ſecond time, *they may flanke their Pikes whileſt they port.* The third time, *they may fall in the Reere of their Pikes*; they in the mean time *charging.* Let the *tenth Firing* be performed by way of *Extraduction*: the which being done, the *Pikes* having *charged*, and being again *advanced*, Firſt, Cauſe thoſe that ſtand *faced* to the *right*, to *wheele their Battell back again to the left.* Secondly, Command the

**Note that there muſt a diviſion be made betweene the midſt of the Muſquettiers and Pikes of the left-flanke for the Muſquets to move through.*

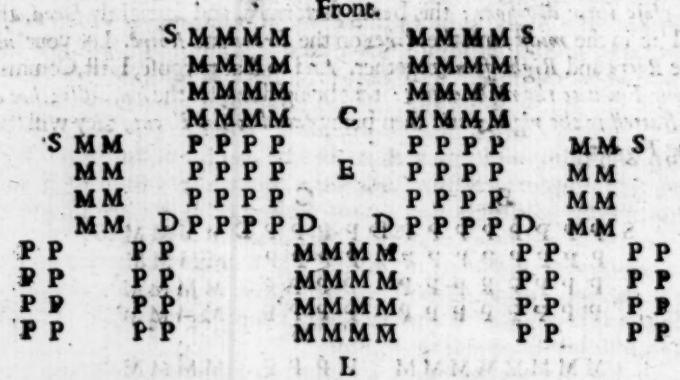
Extraduction, as in cap. 80.

Left-flank

Left-flank to march, and the *Right-flanke to follow on the Reere*. This brings all your *Musquettiers* into the *Front* and *Reere*.

The direction to make the following Figure.

Having suffered your *Souldiers* to have a breathing time, come to the eleventh *Firing*. To make the *Figure*, first command, *front-halfe-files* (as well *Pikes* as *Musquettiers*) *open* to the *right* and *left* to a convenient *distance*, (to receive another *division*.) Secondly, Command *halfe-files* of *Pikes* move to the *right and left*, untill you stand cleere of the *Pikes* before you. Thirdly, Command the *foure inner-most files* (of the *Reer-division*) of *Musquets move forwards* to the *Reere* of the *Intervall* betweene the *Pikes*. Fourthly, Command the two last *divisions* of *Pikes*, *open* to the *right* and *left*, and make *Intervals* for the *two divisions* of *Shot* in the *Reer* to passe through; that so they may range *even-a-breast* with the *Front* of *Pikes*. These *Commands* and *Directions* duely executed, produceth this following *Figure*.



On this *Figure* wee will *give fire* to the *Front*; the two first *divisions* may begin the *Firing*, and the first time fall in the *Reere* of their owne *divisions* of *Musquettiers*; the second time of their *firing-over*, they may place themselves in the *Reere of the Pikes*: the *Pikes may charge*, and *the Reer-division of Musquettiers may move forwards*; being *advanced* into convenient ground, they may *present and give fire* together with the *two divisions of shot, on the Wings*. Let them *fire* and *gain ground*, let them *fire* and *maintaine ground*, let them *fire* and *lose ground*, falling back into the *Reere*, behind the *Intervals* of their *Pikes*. All the *Pikes* having *charged*, may *advance*. By this time sable night begins to appeare, and therefore we will come to * *Reducement*. First, Command all the *Musquettiers to close their divisions*. Secondly, Cause the *two Reer-divisions of Pikes* to *close to the right and left inward*, and the *two Front-divisions of Pikes close to the right and left outward, just before the other divisions of Pikes*. Thirdly, Command the *Musquettiers to move forwards*, and *even their Front of Pikes*. All this being done, your *Musquettiers* are in the *midst*, and the *Pikes* on their *Flanks*. Now if you please to *open* the *Musquettiers* to the *Front* and *Reere*, it will make a *hollow Square* for the *Ensigne* to display his *Colours*. If you will come presently to *Reducement*, Command your *Musquettiers* and *Pikes* to *interchange ground*, and all will be perfectly *reduced* as at first. Therefore now let us *lodge our Colours* with our accustomed *Bene vale*, and conclude our *fifth dayes Exercise*; suffering our *Souldiers* to depart to their severall habitations. There leaving them to *cleanse their Armes*, and to *refresh their bodies*, untill the morrowes *clo mouring Drums* invite again into the Field.

* *The Reducements. The Musquettiers may soon close their divisions by reason they stand neere all together, being so left in this Firing.*

CHAP.

CHAP. CXIX.

The ſixth dayes Exerciſe.

HAving the ſixth time brought your *Souldiers* into the *field*, according to the accuſtomed manner: let each *file-leader* exerciſe his *file*, in the *Poſtures* of ſuch *Armes* as they carry. Which being performed, and the *files* againe re-joyned into one *Body*, the *Enſigne* being at the head of the *Pikes*, and the reſt of the *Officers* in their ſeverall places. The *Captaine* having commanded *ſilence*, *attention*, and *obedience*, (three eſpeciall properties, moſt neceſſarily requiſite to every *Common Souldier*) he proceeds to the ſeverall *diſtances*; inſtructing them in the *uſes* of each of them. Next after the *diſtances*, he teaches them the *Facings*, the *Doublings*, the *Counter-martches*, and the *Wheelings*, with ſeverall obſervations upon each of the *motions*. After which (having ſo *commanded*) the *Drummes beat*, and the *Muſquettiers make ready* for *Skirmiſh*. Then (if you pleaſe) you may cauſe three or foure of the *firſt firings* to be performed by *light skirmiſhing* before the *front*, and that with *looſe rankes* or *files*, or both: either ſome of thoſe, (or ſuch like) as I have formerly ſpoken of in the preceding *Exerciſes*. After which, for your *next firing*; cauſe your *halfe-files* to open to the *right* and *left* by *equall diviſion*, untill the *Reer-diviſions* of *Pikes*, ſtand right after the *Muſquettiers* of the *front-diviſion*. Now the *Muſquettiers* ſtanding in *foure diviſions*, let them all *preſent* and *give fire* to the *Front*: *wheeling* all off to the *right*, and placing themſelves in the *Reere* of their owne *diviſions* of like *Armes*, each *Ranke* ſtill making good the *leaders ground*. Having *given fire*, *once*, *or twice* over on this *figure*: For the ſecond *firing*, cauſe the *Front-diviſion* to *give fire* to the *front*; and the two *Reer-diviſions* to each *flanke* in a *martch*. The *front-diviſion* which *fires* in *ranke*, *wheele all off* to the *right*; *placing* themſelves in the *Reere* of their owne *diviſions* of *Muſquettiers*; the other *Diviſions* which *fire* in *flanke*, leading up their *files* between their owne *Diviſions* of *Muſquettiers* and the *Pikes*.

The firſt firing by foure diviſions to the Front.

The ſecond firing is to the front and both flankes marching.

Having *given fire once or oftner over*, according to diſcretion this way; let the third *firing* be performed upon a *ſtand*. For the which, cauſe your *Reere-diviſions* to *face* to the *right* and *left ont-ward*: the *Front-diviſion*, ſtill to continue the ſame *aſpect*.

The third firing is to the front and both flankes ſtanding.

Then, Let the *Muſquettiers give fire*, thoſe of the *right flanke*, *wheeling-off* to the *right*: and the contrary *flanke*, to the contrary hand; the *Muſquettiers* of the *Front-diviſion*, placing themſelves in the *Reer* of their own *diviſions* of *Muſquets*; The *Muſquettiers* of the *Reere-diviſions*, *placing* themſelves in the *Reere* (of the *Reere-diviſions*) of *Pikes*. When they have *fired* all over, let the *Pikes charge*, to *front* and both *flanks*.

Having advanced your *Pikes* againe, and *faced* your *Body* to the *Front proper*, each *Armes* ſtill ſtandeth in three *diviſions*. Then let the fourth *firing* be to the *Reere* and both *flanks* upon a *martch*. And to that end, open your *Front-diviſions* of *Muſquettiers* to the *right* and *left*, untill they are cleere of the *Reere-diviſions* of *Pikes*: that ſo they bee not troubleſome unto them in their *martch*. Then let your *Pikes ſhoulder*; and the *Muſquettiers give fire*: the *Front-diviſions* of *Muſquettiers*, *firing* in *flanke*, and *leading up* on the in-ſide of their owne *diviſions*. The *Muſquettiers* of the *Reere-diviſions* giving *fire* in the *Reere*, in *ranke wheeling-off* by *diviſion*, and placing themſelves in the *Front* of their owne *diviſions* of *Muſquettiers*. Having *fired once over*, and the *Pikes charged*, let your fifth *firing* bee to the *Reere*, and both *flanks* upon a ſtand. In the which, let the *halfe-files* (both of *Muſquettiers* and *Pikes*) *face* to the *Reer*; the *front-diviſion* to the *right* and *left*, and ſo *give fire* on each part: thoſe that *fire* to the *flanks wheeling-off*, and placing themſelves in the *reere* of their *diviſions* of *Pikes*, and the *Muſquets* of the *Reer-diviſions*, *wheeling-off* to the *right* and *left*, and placing themſelves in the *Reer* of their owne *diviſions*

The fourth figure is to the reer and both flankes marching.

The fift firing is to the reer and both flankes ſtanding.

of *Muſquettiers*; each *Rank* moving forward into their *leaders ground*. Having *fired over*, let the *Pikes charge*. The *Pikes* being again *advanced*, *face* the whole *Body* to the *proper-front*; and then all the *Muſquettiers* will be in the *midſt*, and the *Pike-men* on the *Flanks*.

The ſixt is a firing tripartite as in Cap. 94.

For the *ſixth Firing*, Cauſe your *halfe-ranks* of the *left*, *double* your *right-flank* by *diviſion*. For further *directions*, look back to the *Tripartite Firing*: which you ſhall find *Chap.* 94. Having *fired-over* that way, *charged*, and *re-advanced* your *Pikes*, *face* the whole *Body* to their *former Front*.

The ſeventh is a firing to both flanks in three diviſions.

For your *ſeventh Firing*, Cauſe the *Front* and *Reer-diviſions* of *Muſquettiers* and *Pikes* to *face* to the *right*; the reſt of the *Body* (both *Muſquets* and *Pikes*) to the *left*. Let the *Muſquettiers give fire*, and *wheele* all *off*, either to the *right* or *left*, and place themſelves in the *Reere* of their following *diviſions* of *Pikes*; each *Rank* ſtill moving-up into their *leaders ground*. When their reſt but *two Ranks* of each *diviſion* to *fire*, let the *Pikes* port. Having all *fired* and *wheeled-away*, let the *Pikes charge*. Then *face* the whole *Body* to their *firſt-front*; and command the *firſt* and *laſt foure Ranks* to *face* to the *left*, and to *march*, untill they are cleare of the *ſtanding part* of the *Body*. Then, Cauſe the *Front-halfe-files* to *face* to the *left*, the *Reere-halfe-files* to the *right*, and ſo to *cloſe their diviſions*; and after that to *face* towards their *Leader*.

This perfectly reſtoreth the whole body; every man to his place.

The eight firing is the ſolita ſquare girdled with ſhot.

For the *eighth Firing*, make the *ſolid Square girdled with Muſquettiers*. For the which, draw halfe the *files* of the *right-flank* of *Muſquettiers* croſſe the *Front*, and halfe the *files* of *Muſquettiers* from the *left-flank* croſſe the *Reere*. Then *face* the whole *Body* (both *Muſquets* and *Pikes*) to the *Front*, *Reere*, and *Flanks*. This done, let the *Muſquettiers give fire*, and *wheel-off* by *diviſion*, placing themſelves in the *Reere* of their own *diviſions* of *Muſquettiers*.

The ninth firing is to the front and reer upon Captaine Wallers double figure.

All the time of this *Firing*, the *Pike-men* being in the *middle* of the *Muſquettiers*, have good opportunity (if the *Enemy* be neare) to *gall* them with their thick ſhowers of *feathered ſhot*. The *Muſquettiers*, in the mean time, having *fired once*, *twice*, or *oftner over*, on this *Figure*, draw your *files* of *Muſquettiers* back again into their places.

Then having *faced* the whole *Body* to the *proper-Front*, let your *ninth Firing* be (Captain *Wallers double Firing*) to the *Front* and *Reere*, after this manner:

The tenth firing to both flanks ſtanding.

The bringers up being now the file-leaders.

The eleventh firing is on the diamond figure.

As in c. 78.

First, *Wheele Front* and *Reere* into the *right-flank*: then *face* them all the ſame way they were before: which done, cauſe the *halfe-files* to *face* to the *Reere*, and command the *Muſquettiers* which are in the *Reere* of each *diviſion* of *Pikes*, to *double* their *Front* of *Pikes* by *diviſion*. Then, let them *face-about* and *cloſe* their *diviſions*: and ſo having *refaced* them as they were, let them *give fire*, *wheele-off*, and *charge*, according to directions on Captain *Wallers Figure*.

For the *tenth Firing*, let them *face* to the *right* and *left*, and *give fire* to both *flanks* upon a *ſtand*; *wheeling-off* by *diviſion*, and *flanking* their *Pikes*.

When the *Pikes* have *charged*, and are againe *advanced*, let the *Captain* paſſe to the *Front-accidentall* of the *left-flanke*, and *face* the reſt of the *Body* to him; and in the next place, *wheele* their *Flanks* into the *Front*, and ſo all the *Muſquettiers* will be in the *Front*: and by *facing* the whole *Body* to the *left*, all the *Muſquettiers* will be on the *right-flank*.

Let the *eleventh Figure* be the *Diamond Battell*. Having *given fire* two or three ſeverall wayes, according to the *directions* upon that *Figure*, *charged Pikes*, and *reduced* them again into the *Square*, *face* the *Body about* to the *right*; and *paſſe* the *Muſquettiers* which belong to the *right-flank* between the *Ranks* of *Pikes* into their places. Then the *Muſquettiers* of the *left-flank* being *cloſed* to their *Pikes*, the *Body* will ſtand at their *firſt Order*.

The Body again reduced.

For

For the *twelfth Firing*, make the *hollow Square girdled with shot*: Let them *give fire* upon that *Figure* (both *without* and *within*) according to the *directions* for that *Firing*. Let the *Pikes charge*; and *reduce* them in the ſame manner as I have diſcourſed upon that *Figure*.

The 12. firing is the hollow ſquare girdled with ſhot, as in Chap. 105. The 13. firing as is in Cap. 106. The 14. firing, as in Cap. 104.

For the *thirteenth Firing*, make the *Pleſium*; as you ſhall find *directions* in the 106. *Chapter*.

Having made it, *given fire* upon it, and *reduced* it as at firſt, Let the *fourteenth* and *laſt Firing* for this *Exerciſe* be the *hollow Hearſe and Croſſe*. Turn back to *Chap.* 104. where you may find ample inſtructions for the *making*, *firing*, and *reducing* of it. And laſtly, that you may conclude with *triumph*, cauſe your *Enſigne* to be diſplayed in the *middle* of the *hollow Croſſe*: and then having *fired*, *charged Pikes*, and *reduced* your *men*, according to the directions on that *Figure*, your *men* will be as at firſt. And therefore, ſeeing that by this time night is come, and our *powder* gone, we will here give concluſion to our *ſixth dayes Exerciſe*.

A direction to lodge the Colours.

Wherefore, that you may obſerve ſome form in the *lodging* of our *Colours*, cauſe your *Muſquettiers* to *march* in the *Front* of your *Pikes*. Then, as they *march*, let them *invert* to the *right* and *left*: which is, when the *Ranks file* to the *right* and *left* by *diviſion*. Then, cauſe all your *Muſquettiers* to *face in oppoſition*, to *cock* their *matches*, *guard* their *pans*, and *reſt* their *Muſquets*. In the mean time, let the *Pikes advance*, and *cloſe* their *Ranks* and *Files* to their *Order*. Which being done, the *Captain*, *Lievtenant*, *Enſigne*, and *Drummes beating* a *troop* at the *head* of the *Pikes*, *paſſe through* this *guard* into the appointed place for the *allodgement* of the *Enſigne*. Then, the *Serjeants* cauſe the *Muſquettiers* to *face* all *about* to the *right*, and *preſent*; and upon the firſt *beat* of the *Drum* they all *give fire* in one *volley*. And now having performed our *ſixth dayes Exerciſe*, the *Drum beats a Call*, and makes *proclamation*, that *every man depart unto his ſeverall home untill his next ſummons into the Field*.

The Rankes of Musketiers are to file to the right and left outwards.

CHAP. CXX.

Of the Brigade: the number and way of drawing up a Squadron. Next, the compoſing three Squadrons into one Brigade. And laſtly, of imbattelling three Brigades, after the manner of the King of Sweden.

FOr as much as that *Military mirrour* of our times, *Guſtavus Adolphus* King of *Sweden*, was found not onely able to wage a *Warre* with the *Imperiall Auſturian bird*; but that hee *ſoared* even to admiration, *pluming* and *tearing* the beſt *feathers* from his *back* and *wings*, none of his *Commanders* nor *Generaliſimo's* being able to withſtand the *torrent* of his *victories*: It cannot be denyed but that (next under *God*) his *Diſcipline* and new manner of *Imbattelling* was a great (if not the greateſt) means for the atchievement of the height of his deſignes. And therefore, as in all the former part of my Book I have explicated and ſet forth the *Poſtures*, *Motions*, *Firings*, and *Figures* of *Battell*; to be practiſed by *Files*, *Corporalſhips*, *Diviſions*, *Companies*, *Squadrons*, and ſome for larger *Bodies*: So have I delivered and demonſtrated them all by the number of an hundred twenty eight men. Whereby all ſuch as have a fancy or delight in the exerciſe of the *Infantry*, may be ſo enabled to the work, that they need not continually pore upon two or three *Firings*, thereby breeding *ſatiety*; but with delectation to themſelves, and profit to their *Souldiers*, may exerciſe their *bodies* with more *variety*. Unto which purpoſe, I have alſo added for the cloſe of this my Book, the number, and manner of *Imbattelling* into that *form* of the *Swediſh Brigade*, which hath proved ſo fatall a *Figure* to the Houſe of *Auſtria*.

Philips new Diſcipline raiſed the Macedonian glory.

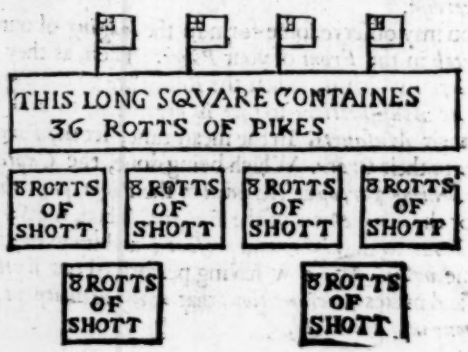
All the Figures in my Booke are ſhewn with the number of 128. men.

The knowledge whereof, as I aſſume not particularly to be mine owne, but a collection: So the *Figure* ſhall be drawn-up according to its owne *Tearmes of Art*, and *Words of Direction*. And therefore, for the better ſatisfaction of the deſirous, wee will begin with a *file*, and ſo proceed untill wee have formed a perfect *Brigade*. Firſt, you are to note that *ſix men* make a * *Rot*: *Three Rots* of *Pikes* makes a *Corporalſhip*; but the *Muſquettiers* have *foure Files* to a *Corporalſhip*: *Three Corporalſhips* of each *Armes* makes a compleat *Company*: that is to ſay, *nine Rots* of *Pikes*, and *twelve Rots* of *Muſquettiers*, twenty one *Rots* together; which amounts to the number of one hundred twenty ſix men, beſides all *Officers*, *Muſter-youngs*, and *Paſvolants*: *foure* of theſe *Companies* make a *Squadron*; and *three* ſuch *Squadrons* formes a perfect *Brigade*. The *Squadrons* are ſometimes drawn-up as this following *Figure*.

* File.

One of theſe ſquadrons containes 504. men whereof 408. are ſometimes drawn up as in this Figure. Sometimes they are arranged all a-breſt, four corporalſhips being alwaies left in the reer as a reſerve. Of this more in the Intelligencer.

A Squadron or third part of a Swediſh Brigade.



By the ſtanding of this *Squadron*, or third part of a *Brigade*, you may eaſily perceive how apt and ready they are to be *Imbattelled* into any *form*, either *offenſive* or *defenſive*. But becauſe I in this Chapter intend no other variety, but onely to ſhew the drawing-up of the *Brigade* it ſelfe, therefore proceed we to the demonſtration thereof, as it is ſet forth and expreſſed in words, by Collonel *Robert Monro*, in his Book, entituled, *Monro his Expeditions and Obſervations*. His *directions*, in effect, are as followeth.

126. *Men a compleat Company.*

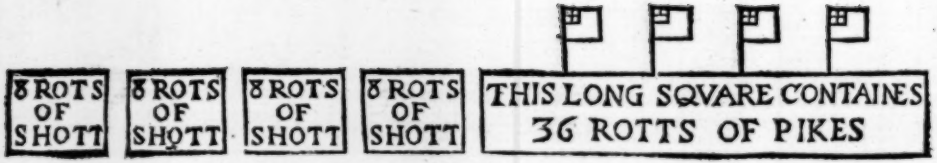
"Twelve compleat *Companies* make up three *Squadrons*: every *Squadron* of *Pikes* and "*Muſquets* being drawn-up ſeverall a-part; the *Pikes* and *Colours* on the *right-hand*, the "*Muſquettiers* on the *left*. Three *Squadrons* thus drawn-up, compleats a *Brigade* of *Foot*, "to be divided as followeth: (*viz.*) Eight *Corporalſhips* of *Muſquettiers*, being thirty "two *Rots*, divided into foure *Plottons*, every *Plotton* being eight in *Front*, led-off by a "*Captaine*, and every *Diviſion* after him led-up by a ſufficient *Officer*; till coming to a "*hault* all are drawn in *even-Front*. Next after theſe, the thirty ſix *Rots* of *Pikes* are to "follow (being twelve *Corporalſhips*) with their *Colours*; a *Captaine* leading-off the "firſt five *Rots*, before the foure *Colours* ſhould ſtirre. Then the *Enſignes* ſhould lead-off "the next *Diviſion*, their *Furers* with their *Colours* following them, till they are drawn-"up even in *Front* with the thirty two *Rots* of *Muſquettiers*. This makes the *right-*"*wing* of the *Brigade*. Secondly, The *Battell* of *Pikes* moveth forwards in *Diviſions*, "doing in all reſpects as the former, untill they *range-even* in *Front* with the *Pikes* of the "*right-wing*. Then the other thirty two *Rots* of *Muſquettiers* belonging to the *middle-*"*Squadron*, (who are appointed to make the *Battell* of the *Brigade*) are to be led-up as

Plottons are ſmall diviſions.

Even with the front but on the left-flanke.

"the

The Swed



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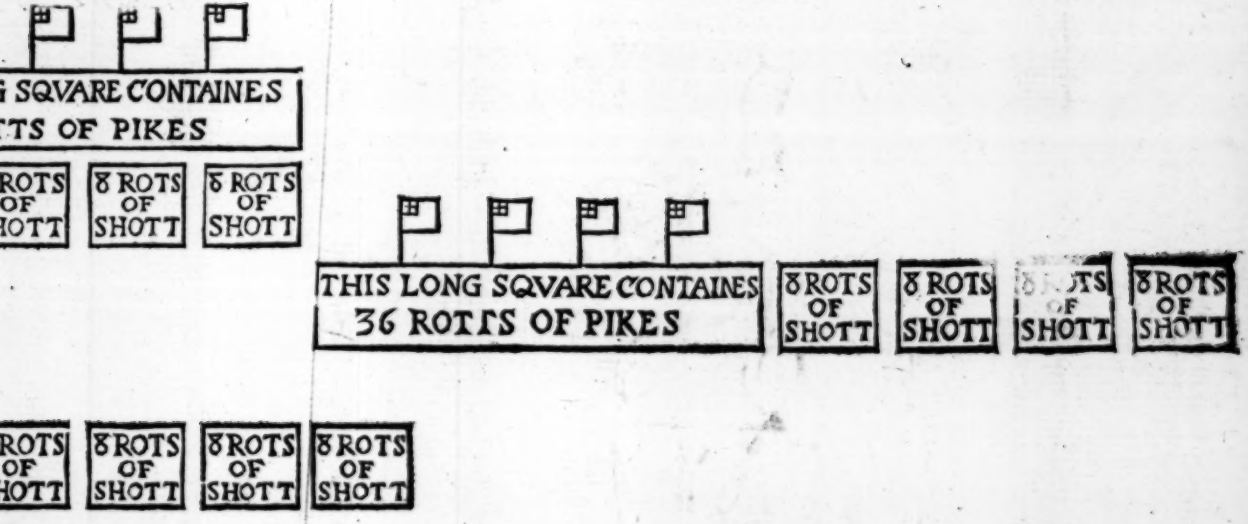
Swedish Brigade.



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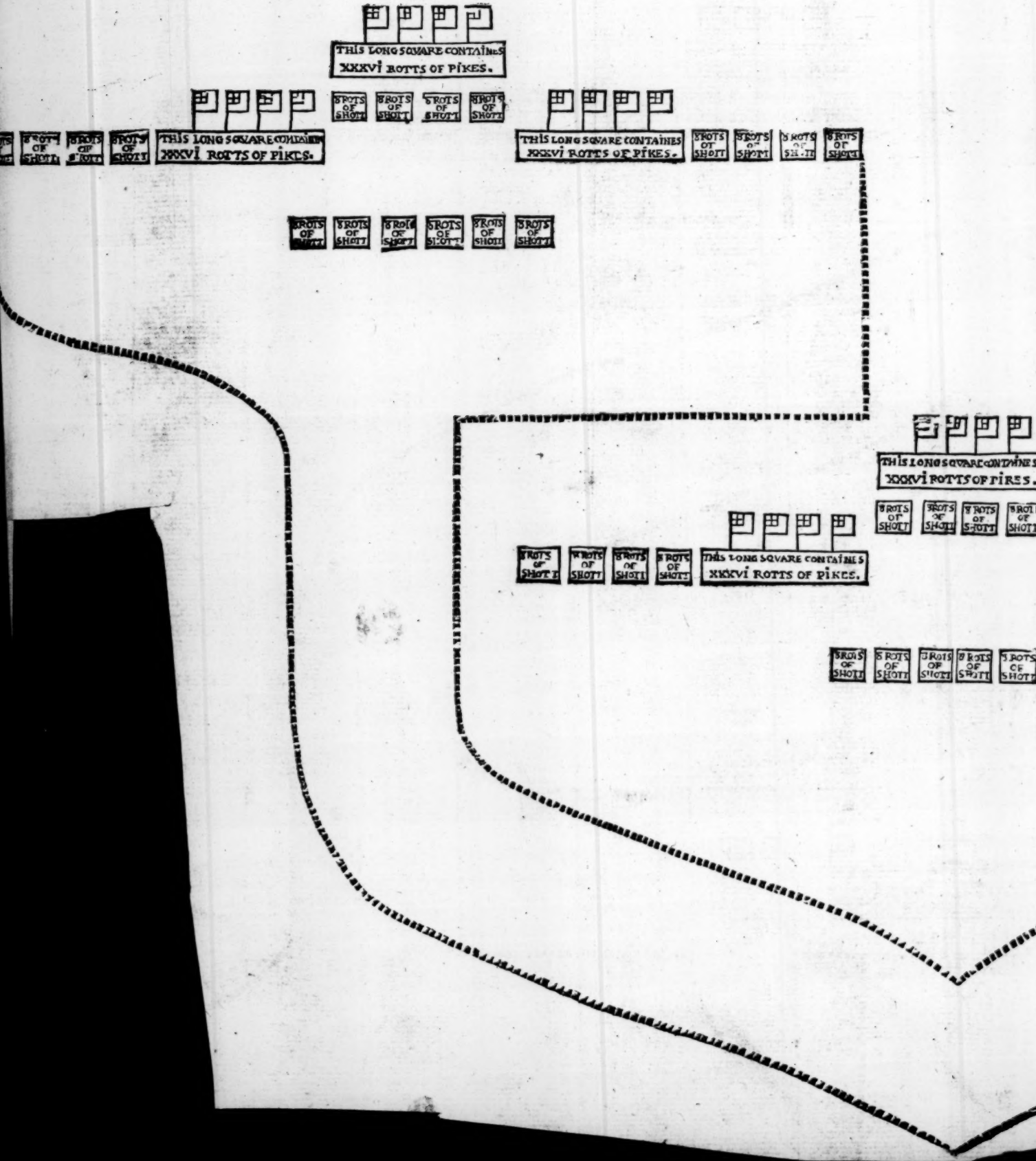
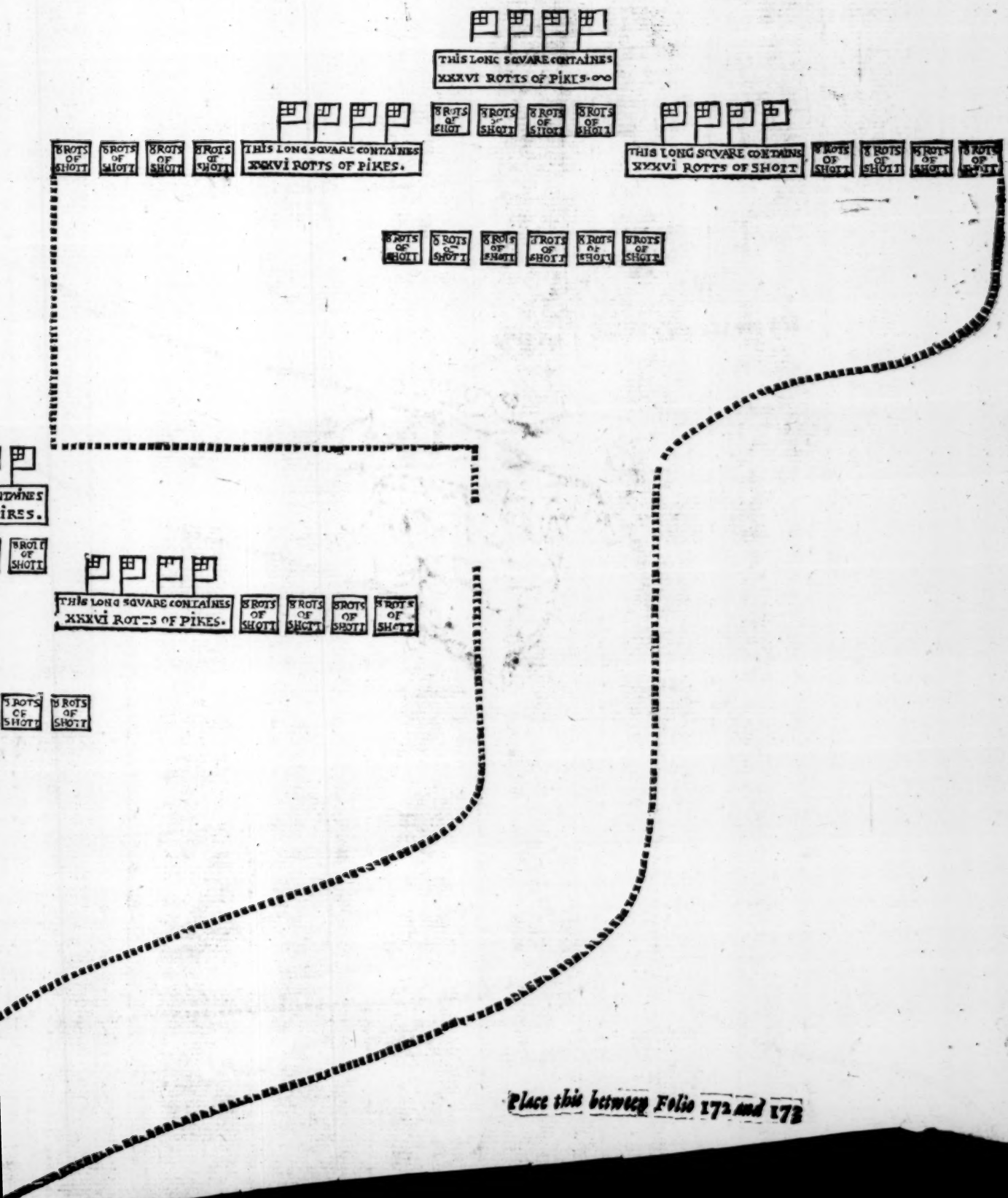


...SH BRIGADES ... imbattelled.



Place this between Folio 172 and 173

" the first Muskettiers in all points: but to be drawn up at a reasonable distance, behinde " the Pikes of their owne Squadron. Thirdly, The last Squadron of Pikes marcheth up, " in all respects observing the former order: moving forwards, untill they have attained " to range even in Front with the other Pikes. After them marcheth forwards the thirty " two Rots of Muskettiers (in foure divisions) observing the former directions, untill " they are equall in Front with the whole Pikes, which maketh up the left wing.

" This being done, the Battell (or middle Squadron) of Pikes and Muskets are to advance " forwards in one Body, till they are cleare of the *Pikes* and *Muskettiers* of the wings. " Lastly, the surplus of the three Squadrons, being forty eight Rots of *Muskettiers*, are " drawne up behinde the Brigade; where they are to attend the Commands of their Offi- " cers, either to guard the Baggage, or Canon, to be Convoyes to bring Ammunition or Vi- " ctuals to the rest; or to continue a reserve to wait upon all occasions. Observe the Fi- " gure of the Brigade, in this place.

Even with the left flank.

The surplus of each squadron is 16. Rots, which together makes 48. Rots.

A compleate *Brigade* (saith Colonel *Monro*) consists of twelve companies, each *Company* containing 126 men: The which is to be understood of full and compleat *Companies*. Otherwise, and most usually of two Regiments eight *Companies* making a *Regiment* consisting of one thousand and eight men. So that one Regiment and halfe, of whole and full companies, would perfect a *Brigade*; or two Regiments of torne and broken Companies, the overplus being alwaies added to the *Reserve*. Notwithstanding it so happened at the *Battell of Lutzen*, that *Mitzlaff*, *Gerstorfs*, and *Rosses*, 3. crazed Regiments, made up but one *Brigade*, being the outmost *Brigade* to the left of the second *Range*. And towards night in the same forenamed *Battell*, going to *rally up* the two broken and shattered *Brigades* of *yellow* and *blew*, belonging to *Grave Neeles*, and Collonel *Winkle*, there were not men enough left unhurt and killed, wherewith to make one Squadron (or third of a *Brigade*) to make another charge. Let this suffice both for the number and order for the drawing up and making the *Swedish Brigade*. If any be desirous to know the places of the *Commanders* and Officers of the *Brigade*, there is a draught communicated by my Lord of *Reay*, and set forth in the *Swedish Intelligencer*.

The Swedes have but 8. Companies in a Regiment.

Look the Swedish Intelligencer.

The discription of the Battell of Lutzen, pa. 168. The Intelligencer.

I should now shew you the manner how the *Muskettiers* performe their firings on this *Figure*. The which by all *information* that hitherto I could gather, have beene these two: namely by * *advancing* or gaining ground; or by *Salves*, powring on showrs of Lead, by firing two or three Rankes together. I might here adde how usefull a Weapon our halfe Pikes would prove in this *Figure*: especially, if the adverse party had any Horse in the midst, or betweene his *Regiments*, as it happened *Tilly* to have in his Battell of *Leipsich*. But I willingly forbeare, that so I might demonstrate the standing of three *Brigads* together in order of *Battell*, according to the usuall and accustomed manner of *Imbattelling* by that *Invincible King of Sweden*, of never dying memory; who placed them as in this *Figure* may be seene. The Battell of the following *Brigade* being alwaies placed directly behind the *Intervall Division*, or *space of ground* betweene the two wings of the former *Brigades*.

* *Introduction.*

A salve is when 2. 3. or more rankt powre out all their shot together in one volley, as we usually doe with our halfe Pikes.

This paines, *Gentle Reader*, have I taken for thy good, the which if it find a kindly and courteous *Acceptance*, shall be to me a *guerdion*, or satisfaction sufficient for my labour and patience. As for the *Envious, who (like the dog in the manger) will neither eat himselfe, nor willingly suffer them that would*. It must bee imputed to their *Cinicall* dispositions; who *square* other mens *endeavours* according to the *crooked line* of their owne *conceits*. Condemning things *commendable in others*; but neither saying or doing any thing considerable themselves. Another sort there be, that would seeme to carry the *Part of knowledge* about them, yet infected with so much *malignity*; that being requested of their *opinions*, they will answer with an *Italian shrug*, or some such like *mimick gesture*: thereby insinuating a kind of doubtfulnesse of things amisse, when themselves are not able to *render a reason* of their *distaste*. I have been toucht with the venom'd teeth of a *third sort*. Who have rendred themselves so *irrationall*, and *stupidly bestiall*; that their *tongues* serve them but as *instruments to wound and goare the Reputations of men, then themselves much more deserving*. But seeing that to *display their follies*, were but to *soile the purity of my subject*: I will leave them to the amendment of their *errors*. Desiring once more of the *Courteous* (and well-knowing *Readers*) that they will put a *faire* construction on mine, and the Printers *oversights*: by which they will not onely *demonstrate* the *goodnesse* of their owne *dispositions*; but put a further *Obligation* upon him, that will ever be ready to serve them.

The Glory be to God.

FINIS.

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FINIS.

MARS
HIS
TRIUMPH.
OR,
THE DESCRIPTION
OF AN
EXERCISE
Performed the XVIII. of *October*, 1638.
in Merchant-Taylors Hall,
BY
Certaine GENTLEMEN of the ARTILLERY GARDEN, *London.*

LONDON,
Printed by *John Dawson.* 1643.

To the Right Worſhipfull Alderman, THOMAS SOAME, one of the Colonels of the City, and Preſident of the *Artillery Garden*, *London*.

As alſo,

To Captain JOHN VEN, Vice-Preſident; Mr. WILLIAM MANBY, Treaſurer; And all other the worthy Captains of the City, and Gentlemen of the Court of Aſſiſtants.

Much honoured Sir,
and
Right worthy Souldiers,

THE GRECIANS were the firſt that out of *variety* of *action*, and long experience of *warre*, reduced the knowledge of *Arms* into an *Art*; giving precepts for the *ordering of Armes*, and the *embattelling of Armies*. The ROMANES, who were their *Succeſſours in time*, ſo were they alſo of their *precepts*; breeding and inuring their youth to *hardſhip*, the uſe of *Armes*, and the ſtudies of the *Art Military*. So that by their countenance and *practice* therein, they not only became *powerfull* and *terrible* to others; but, in a word, *reigned* as ſole *Monarchs* of this *Mundane glory*.

[a] LICURGUS the Law-giver to SPARTA, ordered, that no *Epitaph* ſhould be made, nor mans *name* remembred on his *Tombe*, except of him who had been a *Souldier*; as eſteeming them onely worthy of *memory*. The *Perſian* ARTAXERXES preferred [b] PELOPIDAS, and the *Thebane* friendſhip before the reſt of GREECE, becauſe they were the *beſt Souldiers*. PHILIP of MACEDON, *King* of a poore Countrey, by *teaching* his *people* exactly the *exerciſe of Armes*, and practiſing a new *Diſcipline*, not onely freed himſelfe and Countrey from the *oppreſſion* of his *enemies*; but alſo laid the *foundation* of the MACEDONIAN *glory*.

[a] *Plut. in Licur.*

[b] *Plut. in Pelopida.*

By this, Right Worſhipfull, you may in part diſcerne the great eſteem that *Antiquity* made of thoſe *ſtudious* in this *Art*. And ſo pleaſe you to compare the *Hiſtories* of the *paſſed times*, you may as in an *Index* behold how that the well *diſciplin'd* have alwayes been the very *Bulwarks* and *Impalements* of their Countreys. Where to the contrary, neglect of *Diſcipline*, and the *Art Military*, have been alwayes the fore-runners of deſtruction both to *Province* and *people*. I might be infinite in *examples* of this *nature*, but then I ſhould make my *porch* larger then my *houſe*. Therefore let ROMES remiſſeneſſe be a *warning* to *poſterity*; who as it had a ſlow *gradation* in its *ariſe* by *vertue*, ſo had it *degrees* of *falling*, by neglecting *Diſcipline* and the *Art Military*; ſuffering it ſelfe to be *cruſhed* and *over-trodden* by every *Barbarous Nation*.

This, as it *reflects* upon us a *neceſsity*, ſo it demonſtrates of how *neceſſary conſe-*

quence the *practice of Arms* is: inducing and inviting all *generous ſpirits* to endeavour the attainment of this *Military skill*. To acquire the which, the GRECIANS had their *Tactick* Maſters, the ROMANES their *Tribunes*, and other inferiour *Tutors*, which taught them in *Campus Martius*; and we our *Academies* and *Military Schooles* of *warre*; witneſſe our ARTILLERY GARDEN, with the MILITARY and MARTIALL grounds, wherein the *choice* and *beſt-affected Citizens* (and Gentry) are practiſed and taught the *Rudiments* of our *Militia*. In times of *peace* ſo fitting them, that they may be able to *ſtand* in the day of *battell*, to *Gods glory*, their *owne honours*, and their *Countries good*. But leaving theſe to your more *retyred* and *ſerious* conſiderations, be pleaſed to take notice that the GRECIANS, ROMANES, PERSIANS, and other *Nations*, had not onely their *Trainings* abroad, but they had alſo their *Triumphs* at home, in *Martiall and warlike-wiſe, all armed, treading out ſtately meaſures to their Inſtruments of war*. Such *Military exerciſes* as theſe have you formerly performed, which induced a *judicious Writer* long ſince to ſet forth your *praiſes in elegant verſe*, as followeth:

* *Rich. Nicolls Oxon.* his Londons Artillery *pag.* 37. printed *in Anno* 1616.

Behold how Londons armed Infantry,
Through practice *in true* Rules of Souldiery,
By the Drums martiall muſick *often led*,
The Pyrrhic dance *doe now* diſtinctly tread:
Which if induſtriouſly *they doe purſue*,
And uſe that timely cuſtome that is due
To warlike practice, *in deſpight of hate*,
Which evermore upon deſert *doth wait*,
Times Finger *may* engrave *their* Induſtry,
Upon Fames Pillars *to* poſterity.

And ſuch as this, right *worthy Souldiers*, was our laſt *Exerciſe* in *Merchant-Taylors Hall*, which is the *ſubject* of this Book: the *well contriving* and *exact performance* whereof, induced many of the *judicious Spectators* to deſire Copies; which through ſeverall *tranſcriptions* became ſo imperfect, that I was requeſted by many to bring it to the *Preſſe*, ſo to preſerve its *native purity*. This I was the more willing to ſuffer, by reaſon no more were to paſſe the *print* then barely might ſerve ſuch *Gentlemen* who are deſirous of them, being *members* of our owne *Company*: as not being willing that ſo *rough* and *unpoliſht* a *draught* ſhould be expoſed to the *publike view*. Therefore hoping your wonted favours, and not doubting of your kind acceptance, withall deſiring that as I have *freely* beſtowed my *paines*, ſo you will as *lovingly* paſſe by my *errors*; whereby you will put a further obligation upon him that is already

Yours,

WILLIAM BARRIFFE.

MARS HIS TRIUMPH.

THe number of *Gentlemen* employed in this *Exerciſe* were *fourſcore*; that is to ſay, *eighteen* with *Morions*, *Swords*, and *Targets*; which encountred *nine* againſt *nine*. Secondly, 22. *Saracens*; that is to ſay, a *Captaine*, *Lievtenant*, *Enſigne*, one *Serjeant*, *Pipe*, a *Turkie-Drum*, and 16. ſelect *Saracens*. Thirdly, 40. of the *modern Armes*; *viz.* A *Captain*, *Lievtenant*, *Enſigne*, 2. *Serjeants*, 1. *Phiſe*, and 2. *Drums*, 16. *Muſquettiers* in Buffe-coats and Beaver Morions, and 16. *Pike-men*, compleatly armed in white Corſlets, whole Pikes and Morions.

Targettiers.

The Cornets having once play'd over, the *Targettiers*, nine in a company, *martched* into the Hall, and without delay oppoſed each other; drawing into *Figures*, *nine* againſt *nine*, performing *ten* ſeverall *forms*, making their *encounters* and varying their *Figures*, all according to the diſtinct ſounds of their Muſick. Having performed their ſeverall *encounters* upon each *Figure*, they ſhook hands, and ſaluted each other; then joyntly together they did their *obeyſance* to the *Nobility*, *Aldermen*, and *Gentry*; and laſtly, fell-off in the nature of a *Sillabans*, and ſo quit the Hall.

Next *martched* into the Hall, Captaine *Mulli-Aben-Achmat* with his *Saracens* in great ſtate; their muſick was a *Turkie-Drum*, and a hideous-noyſe-making *Pipe* (made of a *Buffolas* horn:) The one halfe of the *Saracens* were armed with ſhort *Barbary Guns* and *Cymiters*; the other halfe with *ſteel Targets*, and *Cymiters* on their thighs: ſome of the chiefeſt of them had broad *Turkie Daggers* at their girdles, and all of them habited after the *Perſian* and *Turconian* manner. Their names in their places as they *martched* (for the better underſtanding of the Reader) are put into the *Engliſh tongue*.

THOMAS WHITLEY Captaine.

RICHARD COOPER Enſigne.

Stephen Fawcet C.	*John Sparkes C.*	*Richard Bayly C.*	*William Cam C.*
John Robottom C.	*Thomas Locke C.*	*John Jenkenſon C.*	*Thomas Piper C.*
Abraham Shewell T.	*Robert Holland T.*	*John Sweeting T.*	*John Melton T.*
William Rogers T.	*Henry Slayde T.*	*William Sparks T.*	*Simon Hacket T.*

Serjeant *Tooly.*

George Laws Lievtenant.

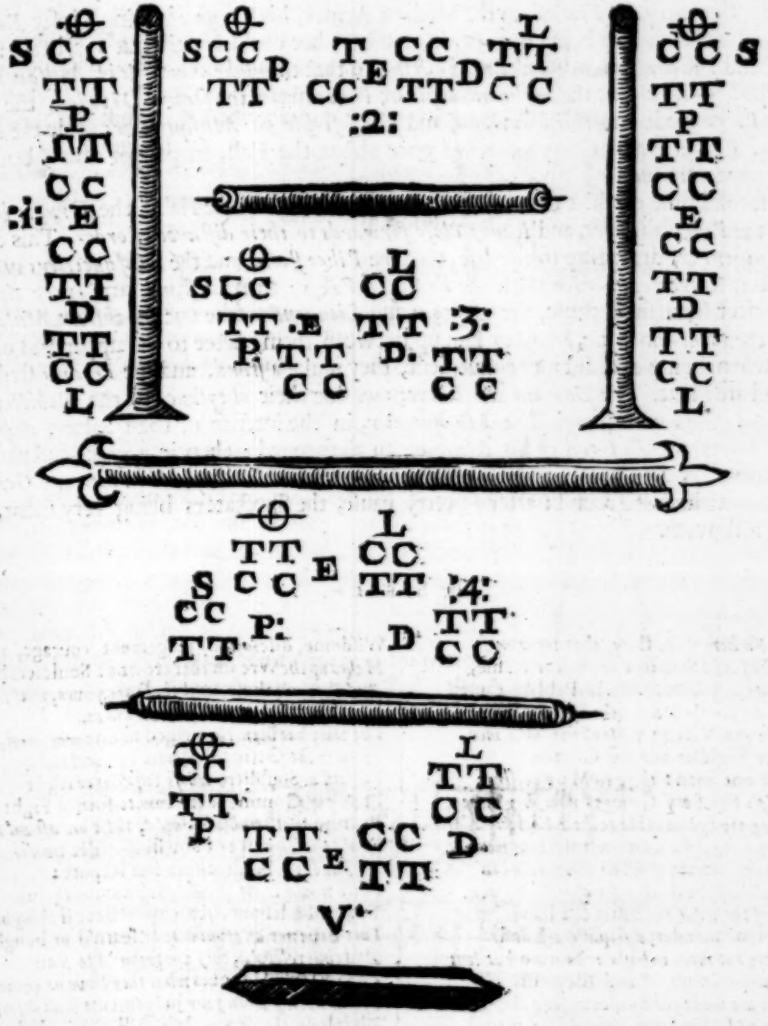
Ruſſell, Pipe. *Beebe*, Drum.

The *Captain* and *Lievtenant martched* with large *Pole-axes* in their hands, *Cymiters* on their thighs, *Battle-axes* hanging on their armes, and *broad Daggers* at their girdles, after the manner of the Countrey. The *Enſigne* with his *Colours* on a ſtaffe tenne foot long, armed with a *ſteele Halfe-moone* on the upper-end. The *Enſigne* (as in the Margin) is a *Pennon Azure charged with an Increſſant Argent on the dexter Angle: From the ſiniſter Bend-wayes, a Motto in the* Arabian *tongue and Characters, BISMI-ALLI VAL MAHOMET,* The Engliſh, *In the name of Alli and Mahomet.*

Theſe *Saracens martched* into the Hall in forme of a *Hearſe*, as in the *Figure* 1. entring in at the Skreene, and ſo *martching* about the Hall: And being again come to the lower-end thereof, they there made an *Alt*; and without any *directions* drew-up their *Diviſions* to the *right* of each other, forming a *Grecian Phalanx*, as in *Figure* 2. In this *forme* hee moved them ſome few paces, and then *faced-about* againe, ſuper-viſing them with a ſtately ſurvay; they in the interim, moving into an *uneven-fronted Battell*, as in *Figure* 3. This done, hee moved forwards ſome few paces, and againe made *Alt*: and his *Saracens* without any preſent *directions* (although according to his former order) drew-up into the *forme* of a *Decreſſant*, as in *Figure* 4. In like manner obſerving a ſtately garbe in his *martch*, hee made the *Creſſant Forme*, as in *Figure* 5. ſtill keeping the ſame order, as well in the *making* as in the *martching*, on them all ſucceſſively.

C ſtands for *Captaine*, L for *Lievtenant*, E for *Enſigne*, S for *Serjeant*, P for *Pipe*, D for *Drumme*, C for *Carbines* (or *Barbary Guns*,) and T for *Targettiers*.

Having



Having *made* and *martched* upon all theſe *Figures*, on each of them demonſtrating the dexterity of his men, the *Captain* by a *ſigne* drew them into the *ſecond Figure*. They then being at the upper-end of the Hall made an *Alt*; the *Captain* then *drawing-off his Diviſions from the Left, wheeled-about the Front of his Body to the Right*, the reſt of the *Diviſions* falling into their places ſucceſſively: which *reduced* them into the *firſt Figure* againe; in which *form* hee *martched* about the Hall: And being come to the upper-end, the *Captain* firſt, and the reſt by *Ranks* ſucceſſively, made their *obeyſance* to the *Nobility* and *Aldermen*, after the *Perſian* manner; putting their *left-hands* upon the *tops of*

their

their Turbants and *Shashes*, bowing their *bodies forward*, and so passed out at the Garden doore.

Lastly, Captain *John Ven* led-in the Modern Armes, his *Drums* beating a lofty *English Martch*; his Souldiers being but 32. in number, hee could *martch* but 2. a-breast: and to that end hee *doubled halfe-files to the left*; so that the *right-hand-file* of *Musquettiers* made the *first-Division*, the *right-hand-file* of *Pikes* made the *second-Division*, the *left-file* of *Pikes* made the *third-division*, and the *left-file* of *Musquettiers* made the *Reer-division*. In this manner they *martched* once about the Hall, in proper order, both for *Posture* and *Distance*.

The second time of their coming from the lower-end of the Hall, the *Drums beat a Troop*, the *Pikes advance*, and *Ranks close forwards to their distance of order*. This done, the *Divisions* are drawn-up to the *left*, then the *Pikes stand*, and the *Musquettiers martch* untill their *Reere range-even* with the *Front* of *Pikes*: then all *stand*, and *order Armes*. When after some small pause, the *Captain* and *Lievtenant* take out the *third Musquettier* of the *right-hand-file*, *trooping* him up between them, neere to the upper-end of the Hall; where being at a distance convenient, they make a *stand*, and the *Drums* strike an *Alt*, and are silent. The *Captain* and *Lievtenant* doe their *obeysance* to the *Nobility* and *Aldermen*, then *martch-off*. The *Musquettier*, in the interim of their Salute, *unshoulders*, and sets the *But-end* of his *Musquet* to the ground; then in a grace-full manner laying down his *Musquet*, hee doth his *obeysance* to the *Nobility*, *Aldermen* and *Gentry*, turning himselfe halfe round: after a pretty pause, the Spectators being very silent, begins as followeth.

The Speech.

Grave Fathers of the City, that are come,
Like the fam'd Senators of ancient Rome,
From seats of Justice, and the Publike cause,
To heare Bellona's Drum beat lond applause
To Warre and Victory; Much honour'd men,
Behold the Souldier and the Citizen
Make but one man: *these to Mars exclaim,*
And though like fiery Comets now they seeme,
Threatning prodigious ruine to their Foes,
Each man can gain a Conqueſt without blood.
For these are Starres *of milder temper, when*
In their owne spheares *they doe appeare to men.*
Not one of these but can instruct a Band,
But each Commander, *discipline a* Land.
These were not made in haste: Nature *has lent*
To each just mixture *of each* Element.
And such are made for Souldiers, *else they are*
But severall Instruments, ordain'd for warre.
The truly valiant *must be* all, *if not,*
T were happy that such valour were forgot.
Who onely fights, is but a Sword or Gunne:
Which onely executes, *and so has done.*

Wisdome, discretion, judgement, courage, art,
Makes up the Wreath *that* crowns a Souldiers heart.
And such are these, and these are yours, *that can*
Governe a little world *in every man.*
The time has been the rugged maine *was crost,*
To both the Germanies, *with care and cost*
To find a Souldier, *whose experience might*
Teach our Commanders *how to* form a Fight.
But now, that trouble's sav'd, these are asham'd
That so much cost *or* dulnesse *should be nam'd*
To soyle *their* Predecessors fair Repute:
These would deny, *should such a one make* suit
To give his labour, *scorning t' have it thought*
They have not all, that may be learn'd *or* bought.
And thus resolv'd, they dare prepar'd to show
To your lov'd Honours *what they have or know.*
Not doubting when your judgements *shall descry*
Their love, *their* care, *their* skill, *their* industry,
The Kings *lent* honours, *that your* merits crown'd,
Will give your Souldiers *one small piece of* ground,
To shew their Armes *in: else, in* heaps of dust
Their glories *will be hid*; *their* bright Armes rust.

Captain

Captain *John Ven.*
Enſigne *Richard Gould.*

Front.

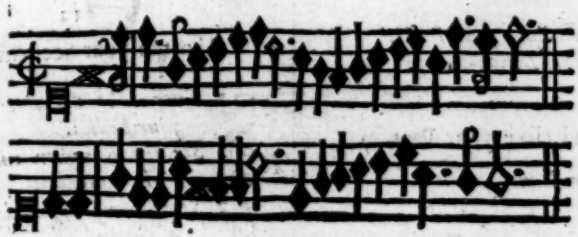
Serjeant Sefton	*Lieuten. Gooday*	*Lieuten. Hacket*	*Lieutenant Allen*	*Lieuten. Barriſſe*	Serjeant *Perkins*
	Lieut. Wolleſton	*Walter Beſvile*	*John Birkenhead*	*Tho. Levingſton*	
	Richard Bennet	*Thomas Head*	*Thomas Hart*	*Ric. Lacy, Speaker*	
	George Simcocks	*Richard Finch*	*William Coleſon*	*Edward Wallis*	
Left-flank.	*Lieutenant Gwin*	*John Alford*	*John Bowker*	*John Davies*	Right-flank.
	Thomas Wardley	*Samuel Clerrige*	*Ralph Long*	*Thomas Clark*	
	Lieut. Stackhouſe	*John Smart*	*Matt. Andrews*	*John Povey*	
	Charles Fowke	*L. Drinkwater*	*John Smart ſeni.*	*John Aſhley*	

Lievtenant *Matthew Shepheard.*

The *Speech* being ended, *obeyſance* done, his *Armes* recovered and *ſhouldred*, the *Captain* and *Lievtenant* on each ſide of him, for his *more honour*, (the *Drummes beating a Troop*) move down with him to his place, and ſo leave him. This done, the *Muſquettiers face in oppoſition*, and *cloſe their diviſion before the Pikes*. After ſome ſmall reſpite, the *Captain* and other *Officers* quit the Body, and the *Phiſe* and *Drum* play the *Poſture* tune once over. When the Muſick began the ſecond time, the *Muſquettiers* in the *Front*, and *Pikes* in the *Reere*, begun the *Poſtures* as followeth.

The *Muſquettiers* ſtand *reſted*, the *Pikes ordered*.

The Poſture tune.



The *Poſtures* divided into 3. to make them fit to keep time with the *Drum* and *Phiſe*.

1

Poyſe your Muſquets.

1 { 1 *Turn the but-ends of your Muſquets to the right.*
2 *Raiſe up your Muſquets with the help of your Reſts.*
3 *Sever Muſquets and Reſts and Poyſe.*

2

Shoulder your Muſquets.

2 { 1 *Slip your left-hands down from the heads of your Reſts.*
2 *Bring Muſquets and Reſts before you, placing your Reſts croſſe the ſtocks of your Muſquets.*
3 *Lay your Muſquets properly on your ſhoulders.*

Unſhoulder

3

Unſhoulder your Muſquets.

3 { 1 Slip and turne.
2 Place your right-hands behinde the Scutcheons of your Muſquets.
3 Sever your Muſquets and Reſts and Poyſe.

4

Joyne your Reſts to the out-ſide of your Muſquets.

4 { 1 Slip your left-hands up to the head of your Reſts.
2 Joyne your Reſts to your Muſquets.
3 Sinke your Muſquets and Reſts by your right-ſides.

5

Open your Pans and cleer.

5 { 1 Open your Pans.
2 Raiſe your Muſquets.
3 Cleer your Pans, by blowing.

6

Prime your Pans.

6 { 1 Take your Primers into your right-hand.
2 Put Powder into your Pans.
3 Return your Touch-boxes.

7

Shut and cleer your Pans.

7 { 1 Shut your Pans.
2 Caſt-off your looſe corns.
3 Blow-off your looſe corns.

8

Bring-about your Muſquets to charge.

8 { 1 Step forwards with your right-legs, and poyſe by your left-ſides.
2 Trail your Reſts between your bodies and your Muſquets.
3 Ballance your Muſquets in your left-hands.

9

Charge with Powder.

9 { 1 Take your Chargers into your right-hands, and ſlip-off the caps with your thumbs.
2 Put Powder into your Muſquets.
3 Returne back your Charges.

10

Charge with Bullet.

10 { 1 Take your bullets out of your mouths.
2 Slip-up your hands by the barrels of your Muſquets, and put in your bullets.
3 Clap your hands on your Muſquets to ſhake them down.

11

Draw forth your Scouring-ſticks.

11 { 1 Lay hands on your Scouring-ſticks and draw them a little.
2 Take lower hold, and draw them paſt the middle.
3 Draw them forth, and hold up the Rammer ends.

12

Shorten your Scouring-ſticks.

12 { 1 Turne the Rammer ends towards your bodies.
2 Set the Rammer ends under your right pays.
3 Slip down your hands within an inch of the ends.

13

Put your Sticks into your Muſquets.

13 { 1 Put the Rammer ends into your Muſquets.
2 Take higher hold, and put them further in.
3 Take higher hold, and put them home.

Ram

14

Ram home your Chargers.

14 { 1 *Ram home*
2 *With three*
3 *Strokes.*

15

With-draw your Scouring-ſticks.

15 { 1 *Draw forth your ſticks a little.*
2 *Take lower hold and draw them further.*
3 *Draw them forth and hold up the ſcrew-ends.*

16

Shorten your Scouring-ſticks.

16 { 1 *Turne the ſcrew-ends towards your bodies.*
2 *Set the ends under your right paps.*
3 *Shorten your Sticks to an handfull.*

17

Returne your Scouring-ſticks.

17 { 1 *Put their ends into the grooves, ſliding them a little down with your thumbs.*
2 *Take higher hold and thruſt them further in.*
3 *Lay your middle fingers on their ends and thruſt them home.*

18

Recover your Muſquets and Reſts.

18 { 1 *Bring forwards your Muſquets with your left-hands.*
2 *Poyſe your Muſquets in your right-hands.*
3 *Recover your Reſts.*

19

Joyn your Reſts to the out-ſide of your Muſquets.

19 { 1 *Slip your left-hands to the heads of your Reſts.*
2 *Joyne your Reſts to your Muſquets, before you.*
3 *Sink your Muſquets and Reſts by your right-ſides.*

20

Cock your Matches.

20 { 1 *Draw forth one of the ends of your Matches.*
2 *Blow your coals together.*
3 *Place your Matches in your Cocks.*

21

Try your Matches, and guard your Pans.

21 { 1 *Draw down your Cocks, and fit your Matches.*
2 *Let your Cocks ſlie back.*
3 *Guard your Pans.*

22

Preſent upon your Reſts.

22 { 1 *Blow your Coals.*
2 *Open your Pans.*
3 *Preſent, keeping the Muzels of your Muſquets mounted.*

23

Give fire breſt-high.

23 { 1 *Levell your Muſquets on your Reſts.*
2 *Set the but-ends to your ſhoulders.*
3 *Draw your Trickers and give fire.*

24

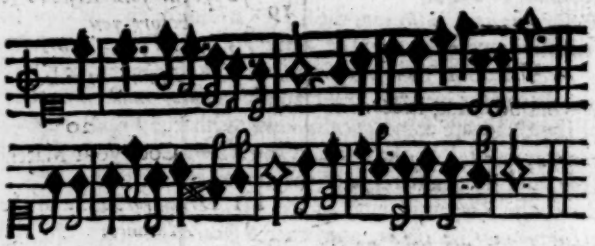
Uncock your Matches.

24 { 1 *Mount the Muzels of your Muſquets.*
2 *Uncock and return your Matches.*
3 *Shut your Pans.*

Having thus performed their *Poſtures*, the *Phiſe* and *Drum* play the *falling-off Tune*, in the interim whereof, the *Muſquettiers* performe their *Saluting Poſture*, and *wheel-off* by *diviſion*, two to the *right*, and two to the *left*, placing themſelves in the *Reere* of the *Pikes*.

After this manner the Tune is plaid *once over* to every *Rank*.

The Falling-off Tune.



	3 *Advance*		3 *Shoulder*		3 *Comport*
	3 *Shoulder*		3 *Advance*		3 *Shoulder*
	3 *Order*		3 *Shoulder*		3 *Comport*
At	3 *Advance*	*At*	3 *Charge to Front*	*At*	3 *Charge to Front*
	3 *Charge to Front*		3 *Shoulder*		3 *Comport*
	3 *Advance*		3 *Charge to Reer*		3 *Charge to Reer*
	3 *Charge to Reer*		3 *Shoulder*		3 *Comport*
	3 *Order*		3 *Order*		3 *Order*

The *Poſtures*, as afore-ſaid, were firſt done with the *Muſquettiers* in the *Front*, the *Pikes* at the ſame inſtant performing their *Poſtures* in the *Reere* of the *Muſquettiers*; the *Body* then ſtanding as the *Figure* under A. When the *Muſquettiers gave fire* they ſtood as *Figure* under B. When the *Pikes* did their *Poſtures* in the *Van*, then the *Body* ſtood as *Figure* under C.

A

M M M M
M M M M
M M M M
M M M M

P P P P
P P P P
P P P P
P P P P

B

M M M M

M M
M M

W W W W

C

P P P P
P P P P
P P P P
P P P P

M M M M
M M M M
M M M M
M M M M

The *Muſquettiers* having performed their *Poſtures*, and *wheeled-off* as above-ſaid, then the *Captain* and *Enſigne* (the *Drums beating a Troop*) lead up the *Pikes* towards the *upper-end* of the *Hall*, into the place where formerly the *Muſquettiers* ſtood; then the *Drums* ſtrike an *Alt*. The *Captain* and other *Officers* (as formerly) quit the *Body*: and the ſecond time that the *Poſture Almain* is playd over, the *Pikes* begun their *Poſtures*.

The

The *Muſquettiers* at the ſame time doing their *Poſtures* in the *Reere* of the *Pikes*, as formerly in the *Front*.

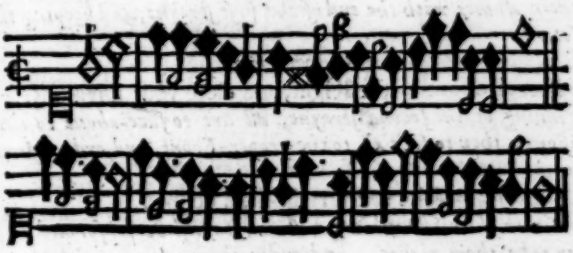
Note that the *firſt ſtrein* of the *Poſture Almain* was playd *twice over*; and the *laſt ſtrein twice over*: after this manner, the whole tune was doubly playd *twice over*; wherewith conſorted and ended both the *Poſtures* of *Muſquets* and *Pikes* together. The *Pikemen* having performed their *Poſtures*, the *Captaine* and *Enſigne* move to the head of the *Pikes*, the *Lievtenant* to the *Reere* of the *Muſquettiers*, the other *Officers* to their ſeverall places: the *Drums beat a Troop*, the *Pikes advance*, the *Muſquettiers face* to the *right* and *left outward*, and *martch* to the *Angles* of their *Pikes*, then *face* as before. The *Pikemen* in the *interim* doing their *obeyſance*, and *counter-martching* to the *right*, every *Rank ſaluting* as they come into the *Front*, and ſo *counter-martch* to the *right*, untill the *File-leaders* of the *Pikes* are come *even in rank* with the *Front of Muſquettiers*; then they again *re-counter-martch* to the *left*, and *martch-up even-a-breſt* with the *Muſquettiers* in one *Body*, and make a ſtand neer the upper-end of the Hall. Which done, the *Body* will ſtand as the *Figure* under D.

The *Captain*, *Lievtenant*, *Enſigne*, and other *Officers*, having again quitted the *Body*, the *Phife* and *Drumme* begin the *Almaine* Tune for the *Motions*: and the ſecond time the Tune is played over, they begun their *Motions* as followeth.

D

M M P P P P M M
M M P P P P M M
M M P P P P M M
M M P P P P M M

The Tune for the Motions.



FACINGS.

Face all to the right, and martch ſix paces.

With the end of the firſt ſtreyn, all face to the Front again, and order Armes.

Face all to the left, and martch foure paces.

This is to bring you into the midſt of the Hall: then face to the Front, and order as before with the cloſe of the ſecond ſtreyne.

1. The figures of number in the margent declare how many times the whole Tune is played over throughout the Exerciſe.

Face all to the right-about, and martch ſix paces.

In this Motion you are to keep your Aſpects to the Reere, and order Armes with the cloſe of the firſt ſtreyne.

2. Theſe foure Facings intire.

Reducement.

Face all about to the left, move ſix paces.

This done, order Armes (as before) with the end of the Tune.

Left-flank, face-about to the right, and the whole Body martch.

3. *With the first ſtreyne of the Muſick the left-flank faceth to the Reere, and the whole Body moveth the way of their Aſpects, ordering Armes with the end of the ſtreyne.*

The continuance of the Tune numbred by the figures in the margent.

Reducement.

Face all about to the left and martch.

Upon this Motion all are to move ſlowly, untill the proper File-leaders be even in rank, then face all to the Front together, and order Armes with the end of the Tune.

Two firſt Ranks, face to the right and left outward; Two laſt Ranks, face-about to the right; move all foure paces.

4. *With the firſt ſtreyne of the Muſick they are to face to the Right, Left, and Reere, and to move foure paces; then order Armes with the end of the firſt ſtreyne, keeping their Aſpects the way of their Motion.*

Reducement.

Diviſionall Facings.

Face all about to the right, and cloſe your Diviſions.

With the beginning of the ſecond ſtreyne, all are to face-about to the right, and to move ſlowly, and cloſe their Diviſions; then laſtly to face all to the Front, and order Arms with the end of the Tune.

Muſquettiers, face to the Right and Left; Pikes, face to the Front and Reere; move all.

5. *With the beginning of the firſt ſtreyne, the Muſquettiers face to the Right and Left outwards, and the two laſt Ranks of Pikes face-about to the Right, then all move foure paces, ordering their Armes with the end of the firſt ſtreyne, and keeping their Aſpects the way of their Motion.*

Reducement.

Face all about to the Right, and cloſe your Diviſions.

With the beginning of the ſecond ſtreyne, all are to face-about to the Right, and to cloſe their Diviſions; then to face all to the proper-Front, and order Armes with the end of the Tune.

Doublings.

Files to the right-hand double.

6. *Becauſe the Motion of this Doubling is ſhort, it muſt be performed ſo ſlow and gracefully that all may take their places, and order their Armes with the cloſe of the firſt ſtreyne.*

For Reducement:

Ranks to the left-hand double.

With the beginning of the ſecond ſtreyne, the even Ranks who are to performe this Doubling, firſt face to the left, then together at three ſteps double their Ranks to the left, ordering their Armes with the end of the Tune.

Files to the left-hand double.

7. *This Doubling is to be performed as the other doubling of Files, obſerving the former directions; onely varying in the hand.*

For Reducement.

Ranks to the Right-hand double.

Theſe foure Doublings are to be performed very leiſurely, becauſe the Motion is ſo ſhort, that ſo they may ſtill end the Doubling, and order Armes with the end of the Tune.

Double your Files to the right intire advancing,

8. *With the beginning of the Tune, the odde Files (accounting from the right) advance their Armes, move forwards, and performe the Doubling, ordering Armes with the cloſe*

of

of the first streyne. This Doubling requires something a quicker Motion in the Movers, by reason that it is a Doubling both of number and place; the last foure being onely Doublings of number.

The continuance of the musicks playing over.

For Reducement.

Front-halfe-files, as you were.

With the beginning of the second streyne, the Files that doubled face-about to the right, and move back into their places, face to the Front, and order Armes with the end of the Almaine.

Right-flank, double the Left-flank by division.

9. *With the beginning of the first streyne of the Almaine, the Right-flank divideth; the Reere-halfe facing-about, and then both the Front and Reere-halfe moving forwards untill they are cleare of the standing part of the Body, (being the Left-flank) they are to keep the Aspects the way of their Motion, but not to order Armes with the close of the first part of the Tune; because the Doubling was not perfected.*

With the beginning of the second streyne, the Front-division faceth to the Left, the Reere-division to the Right; both moving slowly, untill the Doubling be performed; then face all to the Front, and order Armes with the end of the Almaine.

For Reducement.

Right-flank that doubled, martch into your places.

10. *With the first streyne, they that doubled advance their Armes, face to the Right, and move cleare of the standing part of the Body.*

With the second streyne they face in opposition, and martch into their places; facing to the Front, and ordering Armes with the close of the Musick.

Files, double your depth to the Right.

11. This Doubling the depth, reduced the Body: closing to the right, made room for (12.) the next Doubling.

This Doubling requireth a little more quickneſſe in the Movers, being they are to double; face to the Front, and order Armes, concluding all with the first streyne of the Musick.

With the beginning of the second streyne, the whole Body faceth to the Right, and closeth to the Right-side of the Hall, to the distance of Order: then face all to the Front, and order Armes with the end of the Tune.

Halfe-files, double your Front to the Left intire.

In the first streyne of the Almaine, the halfe-files advance their Armes, face to the Left, and move cleare of the standing part of the Body (but not ordering Armes.)

With the beginning of the second streyne, the halfe-files face to the Right, and move up even with the Front; and then order Armes with the end of the Tune.

For Reducement.

Halfe-files that doubled, face-about to the Right, martch forth into your places.

13. *In the first part of the Tune, the halfe-files advance Armes, face-about to the Right, and move down cleare-off the standing part of the Body.*

With the beginning of the second streyne, the Front-halfe-files face to the Left, and meet the Reer-halfe-files in the midst of the Hall, (being even) all face to the Front together, and order Armes with the end of the Tune.

Halfe-files, double your Front by division.

14. *In the first streyne of the Tune, the halfe-files advance their Armes, face to the Right and Left, moving untill they are cleare-off the standing part of the Body.*

With the beginning of the second streyne, they face all to the Front, and martch forwards untill they have evened the Front, then order Armes with the end of the Tune.

For

For Reducement.

Halfe-files, face-about inward, and martch into your places.

15. The continuance of the Musicks playing over. *With the beginning of the first streyne, the halfe-files face-about, and move down to the Reere of the Front-halfe-files.*

In the second part of the Tune, the Front-halfe-files open to the Right and Left to their open Order, the Reere halfe-files in the meane time placing themselves directly after their Leaders; all facing to the Front, and ordering Armes with the end of the Tune.

COVNTER-MARCHES.

Files to the right-hand Counter-martch.

16. Counter-martches. *At the close of the first streyne of the Tune, the File-leaders must be even in Rank with the Bringers-up, the rest of the Ranks even one with another.*

With the beginning of the second streyne, they all move forwards and finish the Counter-martch, keeping their Aspects to the Reere, and order Armes with the end of the Tune.

Files to the left-hand Counter-martch.

17. *In this Counter-martching Files to the Left, they are to observe the former directions both for time and Posture.*

Ranks to the right-hand Counter-martch.

18. *With the beginning of the first streyne, the whole Body faceth to the Right, the right-hand-file turning-off together, and moving even-a-brest towards the Left, untill the right-hand-file of Musquettiers be all met even-in-rank with the left-hand-file; the Pikes in like manner being inserted one file within the other, wherewith ends the first streyne of the Tune.*

With the beginning of the second streyne the Counter-martch is continued and perfected, all facing to the Front, and ordering Armes with the end of the Tune.

For Reducement.

Ranks to the left-hand Counter-martch.

19. *With the beginning of the first streyne the whole Body faceth to the Left, and performs the Counter-martch according to the former directions, onely differing in the hand.*

Front and Reere-halfe-files, interchange ground.

20. *With the first streyne of the Musick the whole Body advanceth their Armes, the Front-halfe-files facing-about to the Right, each Division passing forwards to the Right, between each others Intervalls (or Files) untill the File-leaders become even with the Reere-ranke, then stand with the close of the first streyne.*

With the beginning of the second streyne, the Divisions move forwards; that Division that moveth towards the bottome of the Hall must have an eye to their followers, that so they may face all about to the left together, and order their Armes with the close of the Musick.

For Reducement.

Front and Reere-halfe-files, interchange ground.

21. *This second interchanging of ground is for the Reducement of the former, wherein you are punctually to observe the former directions.*

Halfe-files, double your Front to the Left.

22. *With the beginning of the first streyne, the Reere-halfe-files advance their Armes, moving*

ving forwards into the Front-halfe-files, untill the Halfe-file-leaders are even in Ranke with the File-leaders, the other Ranks being even one with another, then all order Armes with the close of the first streyne. The continuance of the Musicks playing over.

With the beginning of the second streyne, the whole Body advance their Armes, and face-about to the Right, martching down towards the Skreene, untill the proper File-leaders be in the middle of the Hall: then all face-about to the right, and order Armes with the end of the Tune. This last Doubling by halfe-files (after the Counter-martches) was to inlarge the Front of the Body, that so the Wheelings might the more properly and commodiously be performed. Facing-about to the right, and martching into the midst of the Hall, was to gain roome for the Body to Wheele upon.

WHEELINGS.

Wheele your Battell to the right upon the same ground.

This Wheeling is to be performed on the first streyne of the Tune; and in the Motion the Right-flank is to face to the Left, using a reasonable quick motion: The Left-flank wheele slowly to the Right; being come to their ground, all order Armes with the end of the first streyne. 23.

For Reducement.

Wheele your Battell to the Left on the same ground.

Now the Left-flank is to face to the Right: the rest to performe in like manner according to the former directions. This Wheeling is but the Reducement of the other, and to be done to the second streyne of the Tune.

Wheele your Front into the midst.

With the beginning of the Musick the two middle-most File-leaders are to move very slowly; the Musquettiers on the Wings must use a swifter motion: Being wheeled together, all are to face to the proper-Front, and order their Armes with the close of the first streyne. 24.

For Reducement.

Wheele your Reere into the midst.

With the beginning of the second streyne of the Musicke, all face-about to the Right, then wheele together as before: Lastly, face all to the proper-Front, and order Armes with the end of the Tune.

Wheele Front and Reere into both Flanks.

With the beginning of the Tune the Body faceth to the right and left-outward, and then wheele together as formerly, facing to the proper-Front, and ordering Armes with the end of the first streyne. 25.

With the second streyn advance Armes, face in opposition, close your divisions, face to the Front, and order Armes with the end of the Tune.

Reducement.

Wheele both Flanks into the Front and Reere.

With the beginning of the Musick all advance Armes, and the Halfe-files face-about to the Right, then wheele together, as formerly. Lastly, face all to the proper-Front, and order Armes with the close of the first streyne. 26.

The continuance of the Muſicks playing over.

With the ſecond ſtreyne, face all in oppoſition, cloſe your diviſions, face to your proper-Front, and order your Armes with the end of the Muſick.

The end of the Motions.

THe *Motions* of the *Body* thus ended, the *Captain*, *Lievtenant*, *Enſigne*, and other *Officers*, take their ſeverall places, the *Drums trooping* them thither.

The *Captain* having ſaluted his Company, the *Drums beat* a lofty *Engliſh Martch*, and the *Captain* leads the Company forth in *Diviſions* once about the Hall, each *Officer martching* in his due place. Being at the lower end by the Skreen, the *Drums beat a troop*, the *Pikes advance*, the *Ranks* cloſe forwards to their *Order*, and each *Officer* leads-up his *Diviſion* to the *left*. Then all together in a *faire breſt* they *troop* forwards into the middle of the Hall, and there make an *Alt*, all *ordering* their *Armes*. This being done, the *Captain*, *Lievtenant*, *Serjeants*, *Phiſe* and *Drums* quit the *Body* again; the *Enſigne* onely remaining with the Company.

27. After ſome ſmall pauſe, the *Phiſe* and *Drum* begin the *Almain* once over both ſtreyns, the *Body* ſtanding as the *Figure* under E.

Here begin the Firings.

To make the firſt Figure.

E

28. MM P P P P MM
MM P P P P MM
MM P P P P MM
MM P P P P MM

Upon the ſecond time of the Muſicks playing over, with the beginning of the firſt ſtreyne, the *Muſquettiers* move forwards ſlowly, untill the *third Rank of Muſquettiers rank-even* with the *Front* of *Pikes*; then all ſtand, and *order Arms* with the end of the firſt ſtreyne. With the beginning of the ſecond ſtreyne the *two firſt Ranks of Muſquets face in oppoſition*, cloſe their *diviſions*, *face* to the *proper-Front*, and *order* their *Armes*; the *two laſt Ranks* of *Muſquets*, in the interim, opening to the *right* and *left*, leaving *Intervals* between themſelves and the *Pikes*, and ſo end with the cloſe of the ſecond ſtreyne; which produceth the *Figure* under F.

This firing reduceth the Muſquets to both ſtanks againe.

F

MMMM
MMMM

E

MM P P P P MM
MM P P P P MM
P P P P
P P P P

The *Figure* under F being made, the *Drummes beat a Preparative*; the *Muſquettiers* in the interim *cock their Matches*, and *preſent*: the *Pikes* at the ſame time firſt *advancing*, then *porting*: The *Drummes beat a Charge*, the *Muſquets give fire*, falling-off after the uſuall way of this *Firing*: The *Drummes* continue *beating*, the *Pikes charge*, and the *Muſquettiers make ready* again; which being done, the *Drums* ſtrike an *Alt*, and the *Pikes advance*.

To make the ſecond Figure.

29. When the *Almain* begins againe, the *two firſt Ranks of Muſquettiers unſhoulder* and *paſſe*, *martching* to the *Front-angles* of the *Pikes*, there *ordering* their *Armes* with the cloſe of the firſt ſtreyne of the Tune

With

With the ſecond ſtreyne, the *two laſt Ranks of Muſquettiers advance* their *Arms*, and *face-about* to the *right*, moving as before to the *Reer-angles* of the *Pikes*; all *face* to the *Front*, and then *order Armes* with the end of the Tune; which produceth *Figure* G. The continuance of the Muſicks playing over.

The *Figure* G thus made, the *Drums beat a preparative*, the *Pikes advance*, and the *two laſt Ranks* (as well *Pikes* as *Muſquettiers*) *face-about*; the *Muſquettiers cock* and *preſent* to the *Front* and *Reere*, the *Drums beat a charge*, the *Muſquettiers give fire*, the *Pikes port*: The *Shot* having *fired*, *wheel-off* to the *right* and *left*, placing themſelves in the *Reere* of their owne *Diviſions*, ſtill preſerving the *Figure*: The *Pikes charge*, and the *Muſquettiers make ready* again; then all *face* to the *Front*, and the *Drums* ſtriking an *Alt*, all *order Armes*, &c.

G

M M M M
M M M M
P P P P
P P P P
P P P P
P P P P
M M M M
M M M M

To make the third Figure.

After ſome ſmall pauſe, the *Phife* and *Drummes* begin the *Almain* again: with which the *Muſquettiers poyſe* their *Muſquets*, and the *two firſt Ranks face-about to the Right*, the *Muſquettiers* both of *Front* and *Reer* moving and cloſing their *Diviſions*; then *face* all to the *Front*, and *order Armes* with the end of the firſt ſtreyn. 30.

With the beginning of the ſecond ſtreyn the *Pikes advance*, and the *two laſt Ranks* of them *face-about* to the *Right*; then all the *Pikes martch* untill they are clear of the *Front* and *Reere* of the *Muſquettiers*: Laſtly, all *face* to the *Front*, and *order Arms* with the end of the Tune; which produceth *Figure* H.

The *Figure* H thus made, the *Drummes beat a preparative*, the *Pikes advance*, the *Muſquettiers make ready*, the *Body faceth* to the *right* and *left*, the *Muſquets preſent*, the *Pikes port*: the *Drummes beat a charge*, the *Muſquettiers give fire*, *wheeling-off* by *diviſion*, and placing themſelves behind their followers. The next *Ranks* move forwards, *give fire*, and *wheel-off* as before, ſtill reſerving the *Figure*: The *Drummes* continue the *Charge* untill the *Muſquettiers* have *made ready* againe. The *Drummes* ſtrike an *Alt*, the *Pikes advance*, all *face* to the *Front*, and *order Armes*.

H

P P P P
P P P P
M M M M
M M M M
M M M M
M M M M
P P P P
P P P P

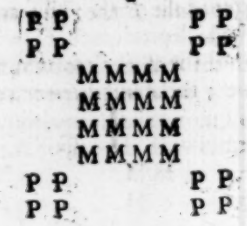
To make the fourth Figure.

With the beginning of the firſt ſtreyne of the *Almaine* the *Muſquettiers face in oppoſition*, and cloſe their *Diviſions*; then *face* to the *Front*, and *order Armes* with the cloſe of the firſt part of the Tune. 31.

With the beginning of the ſecond ſtreyne the *Pikemen advance* their *Pikes*, *face* to the *right* and *left-outwards*, and *martch* to the foure *Angles* of the *Muſquettiers*: then all *face* to the *Front*, and *order Armes* with the end of the Tune; which maketh the *Figure* I.

The continuance of the musicks playing over.

I



```
P P          P P
P P          P P
   M M M M
   M M M M
   M M M M
   M M M M
P P          P P
P P          P P
```

K

```
P P          P P
P P          P P
   M M M M
   M M M M
   M M M M
   M M M M
   M M M M
   M M M M
d d          d d
d d          d d
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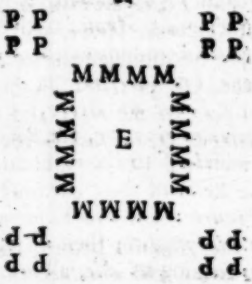


The *Figure* I being thus made, the *Drums beat a Preparative*, the *Pikes advance*, *facing* to the *Front* and *Reere*, *porting* their *Pikes*; the *Musquettiers* in the interim *cock* their *Matches*, and *present* to the *Front*, *Reere*, and *Flanks*, (by *inverting* the foure inner-most *Musquettiers* to the *Right* and *Left*) the which produceth the *Figure* under K. In which Forme they *gave fire* all together, moving againe into their places as under I, the *Drums* and *Pikes* continuing the *Charge*, and the *Musquettiers make ready* againe. Which being done, the *Drums* strike an *Alt*, the *Pikes advance*, and all *face* to the *Front* and *order Armes*.

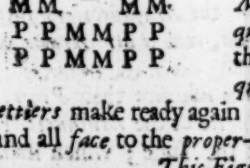
To make the fifth Figure.

32. With the beginning of the *Almain* the *two last Ranks of Musquets face to the Right and Left*, and quickly move between the *divisions* of *Pikes* on the *Flanks*: the *Left-half-ranks* of *Musquettiers* in the *Front*, at the same time *facing-about* to the *Right*, *martching* down between the *divisions* of *Pikes* in the *Reere*, just after the *Musquettiers* in the *Front*, then *face* all to the *Front*, and *order Armes* with the close of the first streyne.

With the beginning of the second streyne, the two *Front-divisions* of *Pikes face-about* to the *Right*, and move down untill they stand even with the *Front* of *Musquettiers*; then *face* to the *Front*: this done, the *two Left-hand-files* of the *Body face* to the *Right*, and close to their *distance* of *Order*: then all *face* to the *Front*, and *order Armes* with the end of the Tune; which produceth the *Figure* L.

L

```
P P M M P P
P P M M P P
M M   E   M M
M M       M M
P P M M P P
P P M M P P
```



The *Figure* L thus made, the *Drums beat a Preparative*, the *Pikes advance*, the *Musquettiers face* to the *Front*, *Reere*, and *Flanks*: The *Pikes* upon the *Right* of each *division* of *Musquettiers face* the same way with their *Musquets*, and *port*; the *Drums beat a Charge*, the *Musquettiers give fire*, *wheeling-off* to the Right, and placing themselves in the *Reer* of their *own divisions*. The *Musquettiers* having *given fire*, the *Pikes charge*, and the *Musquettiers* make ready again: which done, the *Drums* strike an *Alt*, the *Pikes advance*, and all *face* to the *proper-Front*, ordering their *Armes*.

This Figure is reduced again as followeth.

33. With the beginning of the *Almaine*, the *Reer-division* of *Musquets* move forwards into

into the *Front*, the two *left-hand-files* opening to the left (in the mean time) to give them way, the *two Flank-divisions* of *Musquettiers* are also to close to the *right* and *left* inwards, and all *order Armes* with the end of the first streyne. The continuance of the musicks playing over.

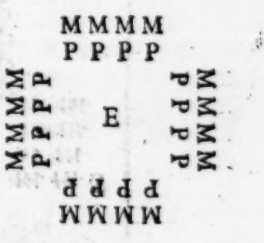
With the beginning of the second streyne the *Pikes* in the *Reer* close forwards to *Open Order*; the *Musquettiers* in the meane time *face* to the *right* and *left* outwards; the *Pike-men face* to the *right* and *left* inwards; then all move and *interchange ground:* which being done, *all face to the Front*, and order Armes with the end of the Tune.

To make the sixth Figure.

When the *Almaine* begins, the *Right-hand-file-leaders* of *Musquettiers* and *Pikes advance Armes*, and *wheele* to the *left*, *crosse the Front of the Battell*; then *face* to the *Front*, and order Armes with the end of the first streyne. 34

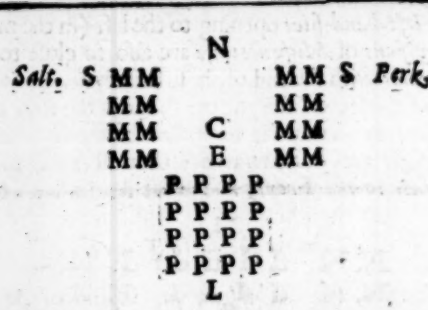
With the second part of the Tune, the *halfe-files* of each *Armes* (of the *left-flanke*) *face-about* to the *right*. The *Bringers-up* (being the *Leaders of the motion*) *wheele* to the *left*, *crosse the Reere of the Battell*: the other foure *Files* are also in the *interim* to *open* to the *right* and *left*, that so they may stand even with the *in-most Angles* of the *Front* and *Reere-divisions*. Lastly, all *face* to the *Front*, and *order Armes* with the end of the Tune, which produceth the *Figure* M.

M



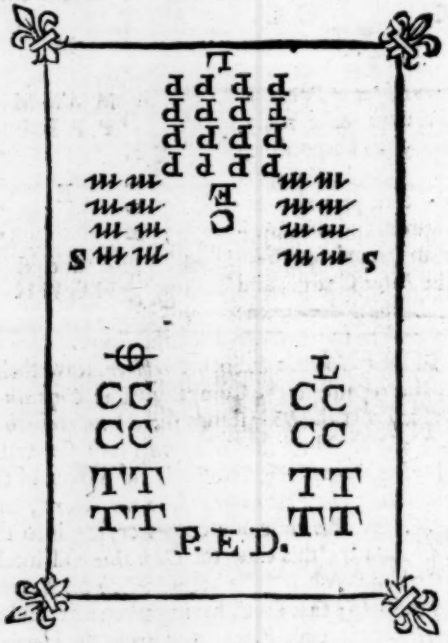
The *Figure* M thus made, the *Drums beat a Preparative*, the *Pikes advance*, the *Musquettiers* make ready, all *facing* to the *Front*, *Reere*, and *Flanks*, and accordingly doe *present*. The *Drums beat a Charge*, the *Musquettiers give fire*, (the *Pikes* in the meane time *porting*) having *fired*, the *Pikes* move a little forwards, and the *Musquettiers* passe to the *right*, every man behind his *Pike-man*. The *Drums* continue beating, the *Pikes* Charge, and *Musquettiers* make ready again. Which being done, the *Pikes advance*, and the whole *Body faceth* to the *Left-angle* of the *Front*.

At this instant the *Beacon is fired*, and the *Captain* and other *Officers* leave their places where they stood to see the *Exercise*, and repaire to the Company. The *Captain* coming to the *Left-angle* of the *Front*, (to which part the *Body* stands *faced*) *martcheth* them a little, and *wheeleth* them about to the *right*. Now the *Sentinell gives fire* without in the Yard: Whereupon the *Captain* having *trooped* them towards the Skreen of the Hall, presently *reduceth* his *Souldiers*, by *wheeling the Front inwards to the Reere*, and then *Counter-martching* his *files* to the *right*. By this time one comes crying into the Hall, *Arme, Arme, the Saracens are landed*. And by this time the *Captaine* had intelligence that their *Battels martched* fast towards him: Whereupon hee *wheeleth* his *Battell* about to the Right, and *doubled halfe-files* to the Left; that done, having taken a ground of some advantage, hee *advanced* his *Musquettiers* before his *Pikes*, and made the *Horn-Battell*, as under *Figure* N. In which form hee attended the coming-on of the *Infidels*.



Now the *Saracens* are entring into the Hall at the Garden-doore; by reaſon of the narrowneſſe of which paſſage, *Mulley Achmat* had drawn his *Body* into the form of a *Hearſe*.

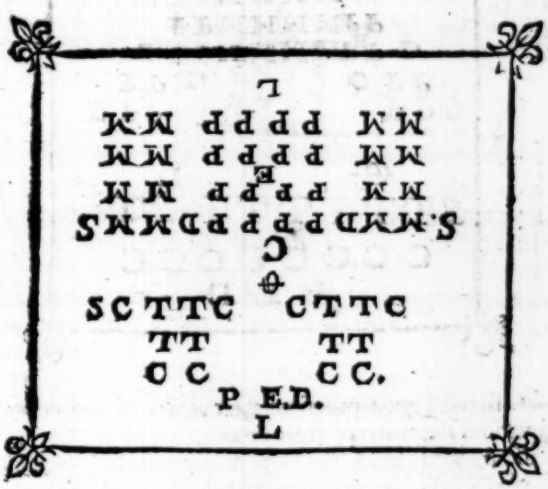
But ſo ſoon as hee was entred the Hall, and ſaw in what forme the *Chriſtians* were *arranged*, (as you may perceive by the Figure under N.) hee immediately divided his *Body* into two *diviſions*, himſelf leading the *Front-diviſion* againſt the *Right-Wing* of *Captain Ven*, his Lievtenant *Mulley-ſheck* leading the *Reere-diviſion* againſt the *Left-Wing*; as you may perceive by the Figure oppoſed to the *Horn-Battell*.

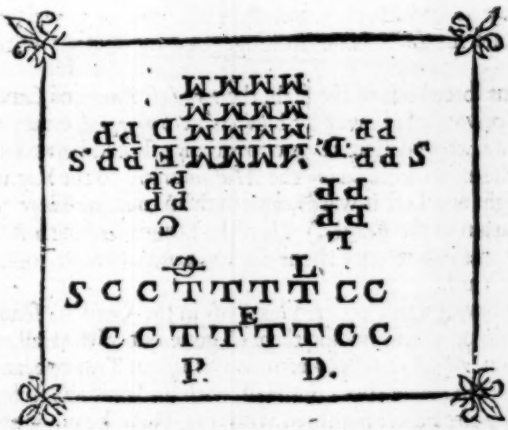


They *gave fire* in this forme one *Body* againſt another, each *Firing* with their *fallings-off*, varying and altering as you may perceive by the ſeverall Figures oppoſed to each other.

The *Fight* continued with much dexterity and reſolution on either ſide; ſometimes the one prevailing, and ſometimes the other: and that with much variety, as it often happeneth in like occaſions.

The


SCTTC CTTC
TT TT
CC CC.
P E.D.
L


L
SCCTTTTCC
E
CCTTTTCC
P. D.

The *Commanders* ſhewed good proofe of their *skills* and *experimented judgements*, by the politique and various alteration of their *formes*.

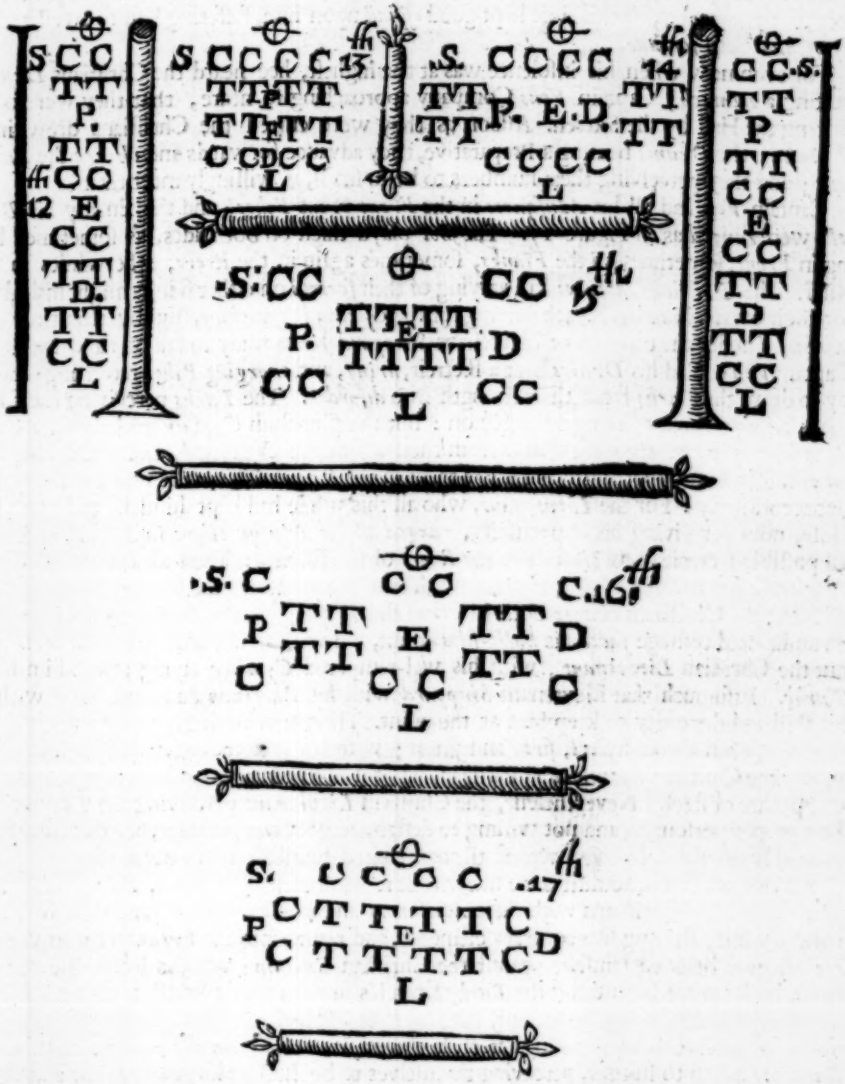
The *Souldiers* alſo ſhewed themſelves to be no *younglings* in the *Art Military*, by their ready *obedience*, and *active motion* on each variety. The *Fight* continued a long time with great obſtinacy on either ſide, untill at length the advantage of the *Chriſtians Armes* and number of their *Souldiers* prevailing, MULLEY ACHMAT with the *Saracens* were forced to give ground. The which the *Chriſtian Captain* perceiving, he cauſed his *Muſquettiers* to move-up between his *Pikes* and *preſent*, pouring out his *ſhot* by two *Ranks* together; the *Pikes* alſo at the ſame time *charging* them home: Which the *Turcomen* people no longer able to endure, they quit the Hall (the ſame way they entred) MULLEY ACHMAT and his *Lievtenant* making good the Retreit with their *Cymiters* in their hands.

The *Saracens* thus forced out of the Hall, the *two laſt Ranks* of Captain *Vens* Company *face-about*, and are privately led away by Lievtenant *Sheppard*, either to lie in *ambuſh*, or to attend upon the *Saracens* deſignes; as opportunity ſhould beſt offer it ſelfe.

The Captain in the mean time *facing* the *Muſquettiers* to the Right and Left outward, the *Pikes* to the Right and Left inwards, cauſeth them to *interchange ground*. (This brings the *Muſquettiers* again to the *Flanks*.) Then the Drums beating a *Martch*, the Captaine leads the Company in *diviſions* once about the Hall, and *martcheth* out at the lower-end by the Skreen into the Yard.

Mulley Achmat having again ordered his *Body* in the Garden, ſends a Spie to ſee what the Chriſtians are doing; and finding them all gone out of the Hall, ſurmiſed they were fled: And thereupon, *Mulley Achmat* returns with great Triumph, and with much vaunting inſolence *martcheth* round about the Hall, with his Souldiers in form of a *Hearſe*; as you may perceive by the Figure numbred with 12. Now being at the lower-end of the Hall, he made an *Alt*; when immediately upon a ſign given, the *Turks doubled* their *halfe-files to the Right intire*; the which produced Figure 13. On which form hee *martched*, and with a ſtately ſurvay beholding the Order of his Souldiers, and the countenance of the Spectatours, hee again made *Alt*, obſerving his former Order, in making and martching on theſe enſuing Figures.

After



After that *Mulley-Aben-Achmat* had made and martched on all these severall Figures, at last with great insolence, hee *wheeled* his *Battell* about to the Left, his *Body* being in form of the 17th Figure: He with a careless garbe viewing the Spectators, and with eyes darting forth disdaine, demonstrating a kind of haughty scorn (by the gesture of his body)

againſt the ſuppoſed *temerity* of the Chriſtians, whom hee beleeved to have been *fled*. But they, to the contrary, all this time kept good *eſpiall* upon him, ſuffering him to ſwell rather by *opinion* than *fortune*.

For even now when his inſolence was at the higheſt, hee heard the Chriſtians *Drums* beating a *Martch*; Captain *Vens* Company approaching ſo neare, that they were now entring the Hall by the Skreen. Aſſoon as they were entred the Chriſtians drew into *Battalia*, the *Drums* beating a Preparative, they advance forwards and *charge* the *Saracens*; and they perceiving their numbers to be ſo ſmall, as willingly meet them.

Captain *Ven* had all his *Muſquets* in the *Front* of his *Pikes*, and the Enemy his *Battells* were *ranged* as in Figure 17. The *ſhot* playd thick on both ſides, as ſometimes being in *Front*, ſometimes on the *Flanks*, ſometimes again in the *Reere*, otherwhiles in the *midſt*. The *Politick Captains* ſtill varying of their *formes* on either ſide, as might make beſt for their own *advantages*, each ſtriving for the *Garland of victory*. But by this time the *Ambuſh* (under the conduct of Lievtenant *Sheppard*) was ready to fall on: and therefore Captain *Ven* cauſed his *Drums* beat a Retreit, *firing*, and *charging Pikes* retreiting; thereby to draw the *Turks* from their ſtrength into *diſorder*. The *Turks* perceiving the Chriſtians to give ground, *charge* fiercely on: but the Chriſtian *Captain* made but a politick Retreit, thereby to draw the *Turks* from their advantage of ground, that ſo the *Ambuſhment* might have opportunity to *charge* them in the *Reere*. This, as it was contrived, fell out accordingly: For the *Lievtenant*, who all this while had kept himſelfe and Souldiers cloſe, now perceiving his opportunity, *ranged all his Muſquettiers in Front*, and with all poſſible ſecrecie drew *cloſe up to the Reere* of the Enemy: Then all on a ſudden *pouring out a great ſalue of ſhot*, hee therewith even rent and tore the Order of the Enemy.

Now the Chriſtians *charge* both in *Front* and *Reere*; the *Turcoman Lievtenant* with an undaunted courage *faced* his *halfe-files* about, and with an unparalleld reſolution ſingled out the Chriſtian *Lievtenant*, with his wel-tempered *Cymiter* laying about him like a *Turke*. Inſomuch that Lievtenant *Sheppard* with his *Partizan* had much adoe with all his skill and dexterity to keep him at the point. The other ſtriving to hew out a way before him, even through *ſteel*, *fire*, and *flame*; with his wel-cutting *Fauchion* ſlicing and paring the Chriſtian *Lievtenants* Partizan, as if it had been a woodden Dagger, and not a compoſure of ſteel. Nevertheleſſe, the Chriſtian *Lievtenant* perceiving the *Turcoman* to be a proper perſonage, and not willing to deſtroy ſo goodly a preſence, hee therefore ſtood politickly on the defenſive, whileſt the other tired himſelfe by his owne fury.

All this while the Souldiers are likewiſe at it with their *ſhort Guns*, *Swords* and *Targets*, againſt the Chriſtians with their *Muſquets* and *whole Pikes*; where wee will leave them a while, ſtriving like contrary elements, and return into the *Front* to ſee how *Mulley Achmat* behaved himſelfe againſt the Chriſtian *Captain*; who, as I fore-ſhewed, had given back purpoſely to draw the *Turke* from his advantage of ground, that ſo his *Lievtenant* might the more commodiouſly give on in the *Reere*.

The which accordingly taking effect, he gave a *freſh charge in the Front*; at which the *Saracens* began to ſtagger, perceving themſelves to be *doubly charged* in *Front* and *Reer*.

Mulley Aben ſeeing his people began to waver, meant to doe ſomething in perſon, ſo to *re-inforce his Battell*; and therewithall caſting away his *Pole-axe*, betook himſelfe to his *Battell-axe* and *Target*; and therewith working wonders, forcing the heads of the beſt armed *Pikes* to give him way, that ſo hee might encounter the Chriſtian *Captain*. Who at the ſame time ſuperviſing his *Battels*, (as being carefull to prevent all croſſe-accidents of Warre) hee ſaw what havock the *Turke* made in perſon; whereupon ſingling him out, between them two began a fierce fight.

The

The *Turke* at the firſt encounter receiving a wound in the hand from the Chriſtian *Captaine*, wherewithall being ſo much the more enraged, hee endeavoured to get within him, intending to have *ſtabd him with a* poyſoned Creeſe* (which hee continually wore at his ſide) hoping with his fall to conclude the *victory*. But the wary Chriſtian perceiving his fury, held him cloſe to it, ſtill keeping the point of his weapon at his breſt.

* *This Creeſe is a dagger with a waved blade poyſoned, according to the cuſtome of that Country. It was given him by the great King of Meccaſſar for a preſent, for ſaving his life when they were hunting and killing the wild Boare, who had elſe killed the King.*

Inraged *Achmat* even foming with anger that he could not worke his deſigne, reſolved for his laſt refuge, with the remains of his *over-wearied Turks*, to break through the *Battell* of the *Chriſtians*. But the *vigilant Captain* having drawn all his *Pikes* in the *Front* cloſely *ſerried* together, kept them ſo cloſe up, that they could not make the leaſt penetration. Whereupon being quite out of heart, with joynt conſent they cryed for *quarter*, after the *Turkey* manner, caſting their weapons on the ground, and laying their *left-hands* on their heads, with a loud voice crying, *Saybe-Sallam*.

The *Chriſtian Captain* remembring how valiantly they had behaved themſelves in fight, tooke compaſſion on them, and *diſarming* them, commanded them to paſſe through between his *files* into the *Reer*. *Lieutenant Shepheard* in like manner with his Souldiers following them, placing his Souldiers in the *Reere* of the *Turks*: So that the *Chriſtians* had foure *Ranks*, two *Ranks* in the *Front*, and two *Ranks* in the *Reere* of the *captive Turks*. They being in two *Ranks* in the midſt of the *Conquerors*. Then the *Chriſtian Captain* cauſed the firſt *Rank* of *Turks* to move between the firſt and ſecond *Ranks* in the *Front*. The ſecond *Rank* of *Turks* between the third and fourth *Ranks* in the *Reere*. Being content himſelfe to have gained the *victory*, hee took onely the Captain *Mulley-Aben-Achmat* for his Priſoner. *Mulley-ſheck* the *Turkey* Lievtenant being Lievtenant *Sheppards* Priſoner. *Aben-Abdella* the *Turkey* Enſigne being Priſoner to Enſigne *Gould*: The reſt of the *Turks* being equally divided amongſt the *Souldiers*; every *two Souldiers* having *one Turkey Priſoner* between them: the *Captain* thus bountifully rewarding his skilfull and conquering *Souldiers*.

This being performed, the *Captain* led-forth his *Company* again in *diviſions* (the *Turks* being *pinioned with peeces of Match.*) After the *Captaine-martched* dejected *Mulley Achmat*: Then a *diviſion* of *Muſquettiers*, being but two in *Rank*, and a *Turkey Priſoner* between them, every *Rank* having one in like manner. Then *martched* Enſigne *Gould* at the head of the *firſt-diviſion* of *Pikes*, diſplaying his *Enſigne* in token of *victory*; *Aben-Abdella* being led, and the *Saracen Enſigne* being carried after him. Laſtly, after the *Recre-diviſion* of *Muſquets martched* Lievtenant *Sheppard*, leading with him his Priſoner bold *Mulley-Sheck*. In this triumphing manner, Captain *Ven* led his *Company* thrice about the Hall, the *Drums beating a Martch*: where it was a goodly ſight to ſee how every *Souldier* was enriched with one Spoyle or other; the which they carried in Triumphing manner, ſome having *Cymiters*, ſome *Barbary Guns*, others having *Targets*, but all ſomething: Beſides this, the *Souldiers* were mightily enriched by the Jewels that they found about them; for theſe were not of thoſe *poore roving Saracens*, but a ſelect Company that had enriched themſelves by the *ſpoiles* of many others. Thus having *martched* about the Hall the third time, being come to the Skreene, the *Captain* made a ſigne, the *Drummes beat a Troop*, the *Pikes advance*, and the *Ranks cloſe forward to their Order*. This done, the *diviſions* are drawn up in *Battalia*, then the *Pikes ſtand*, and the *Muſquettiers advance into a Horn-Battell*. Laſtly, being in this *forme*, the *Drums* continuing their *Troop*, the whole *Body advanceth forward* into the middle of the Hall; then the *Drums* ſtriking an *Alt*, the whole *Body* makes a ſtand, *ordering* their *Armes*. Then the *Captain* and *Lievtenant*, as at the firſt, take forth Mr. *Richard Lacy* (the third man from the *Front* of Lievtenant *Barriffe* his *File*) *trooping* him between them into the *Van*

before the *midſt* of the *Front* of *Muſquettiers*, there doing their ſeverall duties to the *Nobility*, as formerly; The *Souldier* began this enſuing Speech:

The Speech.

VNbrace your Drummes, *and let the* warlike Phiſe
No more diſtinguiſh 'twixt pale death *and* life:
Furle-up your Enſignes, *let the* Canon *ceaſe*,
And re-aſſume your (bravely purchaſt) peace.
Here are the knowing, *that with* judgements eye
Look through your actions; *can at firſt deſcry*
Your wel-weigh'd reſolutions, *and can give*
That ſweet reward that makes a Souldier *live*,
Encouragement: *which from you is* praiſe,
Welcome as Triumph, *or th'* unblaſted Bayes:
Give us but that, wee can diſpence with coſt,
With time *more* precious, *and with what is moſt*
In the eſteeme of men; *wee want but* ground,
Which had, you conquer; *yet our* hopes *are* crown'd.
This from your bounties *if wee ſhall obtaine*,
Vollies *of* ſhot *ſhall* thank *it back againe.*

After the *Speech* thus ended, duty being done, and the *Souldier* returned to his place, the *Captaine* cauſed the *Drummes* to beat a *Troop*, and the *Pikes* to move forwards even with the *Front* of *Muſquettiers*. Then the *Captain* makes a ſigne, the *Drums* beat a *Martch*, and the *Company martcheth* again in *diviſions*; the *Captain* firſt, and the *Ranks* of *Souldiers* following; doing a ſhort *Souldier-like obeyſance* to the *Nobility* as they paſt by them: The *Enſigne* onely *baſing his point*. In this order *martching* forth of the Hall: where the *Turks* found ſo good *quarter*, and kind uſage, that now they are all turned *Chriſtians*; leaving that courſe of life, and are now either *Merchants* or *Shop-keepers* for the moſt part.

FINIS.